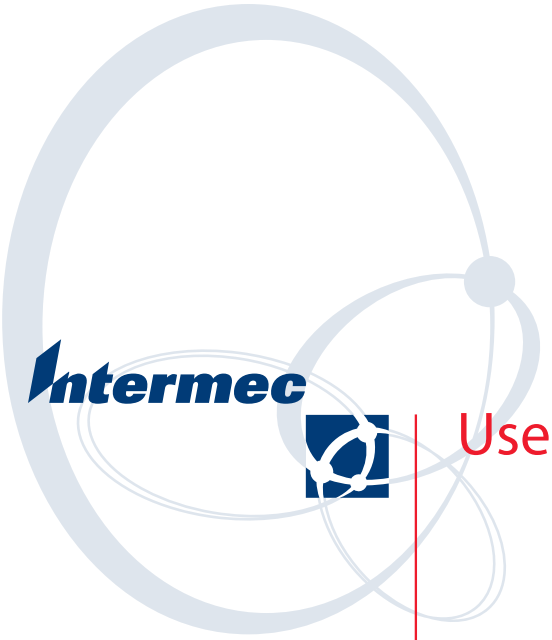

User's Guide

iBrowse

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.opensssl.org/).

This product includes cryptographic software written by Eric Young (EAY@cryptsoft.com).

Document Change Record

This page records changes to this document. The document was originally released as Revision A.

Revision	Date	Description of Change
B	02/2004	Added information that pertains to the CK30 Handheld Computer.

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Before You Begin

This section provides you with safety information, technical support information, and sources for additional product information.

Safety Summary

Your safety is extremely important. Read and follow all warnings and cautions in this document before handling and operating Intermec equipment. You can be seriously injured, and equipment and data can be damaged if you do not follow the safety warnings and cautions.

Do not repair or adjust alone

Do not repair or adjust energized equipment alone under any circumstances. Someone capable of providing first aid must always be present for your safety.

First aid

Always obtain first aid or medical attention immediately after an injury. Never neglect an injury, no matter how slight it seems.

Resuscitation

Begin resuscitation immediately if someone is injured and stops breathing. Any delay could result in death. To work on or near high voltage, you should be familiar with approved industrial first aid methods.

Energized equipment

Never work on energized equipment unless authorized by a responsible authority. Energized electrical equipment is dangerous. Electrical shock from energized equipment can cause death. If you must perform authorized emergency work on energized equipment, be sure that you comply strictly with approved safety regulations.

Safety Icons

This section explains how to identify and understand dangers, warnings, cautions, and notes that are in this manual. You may also see icons that tell you when to follow ESD procedures and when to take special precautions for handling optical parts.

A warning alerts you of an operating procedure, practice, condition, or statement that must be strictly observed to avoid death or serious injury to the persons working on the equipment.

Avertissement: Un avertissement vous avertit d'une procédure de fonctionnement, d'une méthode, d'un état ou d'un rapport qui doit être strictement respecté pour éviter l'occurrence de mort ou de blessures graves aux personnes manupulant l'équipement.

A caution alerts you to an operating procedure, practice, condition, or statement that must be strictly observed to prevent equipment damage or destruction, or corruption or loss of data.

Attention: Une précaution vous avertit d'une procédure de fonctionnement, d'une méthode, d'un état ou d'un rapport qui doit être strictement respecté pour empêcher l'endommagement ou la destruction de l'équipement, ou l'altération ou la perte de données.

Note: Notes either provide extra information about a topic or contain special instructions for handling a particular condition or set of circumstances.

Global Services and Support

Warranty Information

To understand the warranty for your Intermec product, visit the Intermec web site at http://www.intermec.com and click **Service & Support**. The Intermec Global Sales & Service page appears. From the **Service & Support** menu, move your pointer over **Support**, and then click **Warranty**.

Disclaimer of warranties: The sample code included in this document is presented for reference only. The code does not necessarily represent complete, tested programs. The code is provided "as is with all faults." All warranties are expressly disclaimed, including the implied warranties of merchantability and fitness for a particular purpose.

Web Support

Visit the Intermec web site at http://www.intermec.com to download our current manuals in PDF format. To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

Visit the Intermec technical knowledge base (Knowledge Central) at http://intermec.custhelp.com to review technical information or to request technical support for your Intermec product.

Telephone Support

These services are available from Intermec Technologies.

Service	Description	In the U.S.A. and Canada call 1-800-755-5505 and choose this option
Factory Repair and On-site Repair	Request a return authorization number for authorized service center repair, or request an on-site repair technician.	1
Technical Support	Get technical support on your Intermec product.	2
Service Contract Status	Inquire about an existing contract, renew a contract, or ask invoicing questions.	3
Schedule Site Surveys or Installations	Schedule a site survey, or request a product or system installation.	4
Ordering Products	Talk to sales administration, place an order, or check the status of your order.	5

Outside the U.S.A. and Canada, contact your local Intermec representative. To search for your local representative, from the Intermec web site, click **Contact**.

Related Documents

This table contains a list of related Intermec documents and their part numbers.

Document Title	Part Number
700 Series Color Mobile Computer Quick Start Guide	962-054-053
700 Series Color Mobile Computer User's Manual	961-054-031
700 Series Monochrome Computer Quick Start Guide	962-054-061
700 Series Monochrome Mobile Computer User's Manual	962-054-032
TE 2000 3270 Terminal Emulation Programmer's Guide	977-055-003
TE 2000 5250 Terminal Emulation Programmer's Guide	977-055-004
TE 2000 VT/ANSI Terminal Emulatin Programmer's Guide	977-055-005

The Intermec web site at http://www.intermec.com contains our documents that you can download in PDF format.

To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

1 About iBrowse

The goal of the iBrowse application is to provide a web browser for Intermec devices that is compatible with Microsoft Internet Explorer but does not allow the user to exit out of the browser or key in a URL to access a non-work related website. It also prevents displaying the onscreen keyboard each time an edit box receives focus.

iBrowse Details

iBrowse is a locked-down application for 700 Monochrome Computers, 700 Color Computers, and CK30 Handheld Computers with standard operating systems that display web pages. "Locked-down" means that the user does not have the ability to exit, key in their own URLs, or use the back button. This allows the web pages to completely define where the user is to go. iBrowse also prevents the onscreen keyboard from popping up every time an edit box gets focus. The keyboard is still available if needed but does not pop up automatically when an edit box gets focus. You can enter a password to exit the iBrowse application, allowing an administrator to modify any necessary system settings.

A locked-down application is an application that prevents the user from leaving the application or from accessing the normal Navigation bar, Command bar, and Start Menu in Pocket Internet Explorer. Locked-down applications are extremely important to prevent end users from getting "lost" in other parts of the system, in preventing users from changing system settings, and to ensure that users are as productive as possible.

Requirements for Running iBrowse

- iBrowse only runs on a 700 Monochrome Computer, a 700 Color Computer, or a CK30 Computer.
- A data storage card or the Flash File Store must be available in the 700 Series Computer system. Data storage cards include a Compact Flash card or a Secure Digital card, depending on which hardware iBrowse is running. *The CK30 Computer does not require a storage card.*
- iBrowse requires approximately 450 Kb of free space on the storage card and approximately 400 Kb of memory space.

INI File Explained

The INI file associated with iBrowse controls many of the features of iBrowse. The home page to navigate to, the password to exit, and the display of information icons are examples of some of the options held in the INI file. The INI file can contain semicolons to act as comments in the INI files. You must save the INI file as an ASCII file. If you edit the INI file, save it as a standard ASCII file, *not* as a Unicode file. The file name of the ini file is Browse.ini. The INI file must always be in the same directory as the Browse.exe application. Section names and key names in the INI file are case-sensitive.

META tags are available to update most INI settings. See "*Custom META Tags for iBrowse*" in Appendix A for information.

Admin Section

Note: *For the 700 Series Computer*, related desktop icons are shown to the left. *For the CK30 Computer,* see "*Keyboard Navigation*" in Appendix C for information on navigating within the iBrowse application.

There is only one required section in the INI file called the [**admin**] section.

Homepage

This key specifies the page to which the iBrowse attempts to navigate on startup. Tapping the **Home** icon, on the navigation bar, also attempts to load the home page, which can be a URL to the Internet or to the local file system. *This key is required.*

Password

This key holds the password that allows an administrator to exit iLaunch and enter the Pocket PC (Windows Mobile) operating system. This may be necessary if you are modifying system settings. If you leave the password field blank, you can exit the system without entering a password. The password in the default INI is 123456 or 111111 (the sample HTML files can change the password). If there is a space after the = on the password line of the INI file, a space becomes the password. If no password is required, make sure that there is no space after the equal sign. The password is limited to six characters but keep in mind that entering more than a few alphabetic characters is extremely difficult on a Pocket PC device. *This key is required.*

F1HelpPage

This key specifies a page to display if the [F1] key is pressed on a device. The CAB file installs a default help page (F1HELP.HTML) in the Windows directory. *It is recommended that you install the help page in non-volatile storage on the device.* The [**Keys**] section of the INI file has the **F1HelpKey** key that must be set to TRUE to enable this option.

LinkNotFoundPage

This key specifies a page to display when a user selects to navigate to a link and that page was not successfully loaded. The CAB file installs a default "not found" page (NOTFOUND.HTML) to the Windows directory to allow the user to reload the page or return to the home screen. *Install this page in non-volatile storage on the device.*

DisableHomeCommand

This key enables or disables the **Home** icon on the navigation bar. Valid values are TRUE and FALSE. Set this value to TRUE to prevent the user from navigating to the home page via the **Home** icon. The default value is FALSE. *This key is optional.*

DisableExitCommand

This key enables or disables the **Exit** icon on the navigation bar. Valid values are TRUE and FALSE. Set this value to TRUE to prevent the user from exiting iBrowse via the **Exit** icon. The default value is FALSE. See the IBrowse_Command Meta tag for other ways to exit iBrowse. *This key is optional.*

DisableOptionsMenu

This key enables or disables the **Options** item under **Tools** menu on the navigation bar. Valid values are TRUE and FALSE. Set this value to TRUE to prevent the user from entering the Options dialog. The default value is FALSE. *This key is optional.*

Display Section

You can include an optional section named [**Display**] to display status indicators on the command bar. Indicators for the current battery status and signal strength are available. A key is also available to indicate how often to update the icons on the screen. The keys and valid values are as follows.

DisplayBatteryStatus

This is the key that shows the battery icon on the command bar. Valid values for this key are TRUE and FALSE. If this key is not specified, the default setting is FALSE. For more information on the icons and their meaning see Chapter 3, "*Running iBrowse*" for more information.

DisplaySignalStrength

Use this key to display an icon on the command bar that indicates the wireless signal strength. Valid values for this key are TRUE and FALSE. If this key is not specified, the default setting is FALSE. For more information on the icons and their meanings, see Chapter 3, "*Running iBrowse*" for more information.

UpdateInterval

This key determines how often, in seconds, that iBrowse updates the battery status and signal strength, in seconds. If this key is not specified or an invalid value is supplied, the interval is set to the default of 30 seconds. Valid values are 5 to 120 seconds.

Scanner Section

Note: iBrowse only supports built-in scanners, *not* tethered scanner.

You can include an optional [**Scanner**] section to control certain aspects of scanning.

UseWedgeMode

This key specifies whether the scanner functions in wedge mode. Valid values are TRUE and FALSE. FALSE is the default setting if this key is not found or is not valid.

Setting this value to TRUE causes iBrowse to use the scanner in wedge mode. This mode enables the scanner on all pages and "wedges" the data from a valid scan into the keyboard buffer. This makes it appear as though the scanned data came from keyboard input.

When using this mode, the META tags to enable scanning are ignored by iBrowse. The META tags to configure scanner symbologies are still available if the supported symbologies need to change. Set this value to FALSE to force each web page to enable scanning via META tags. You cannot change this value via the downloaded META tags. *This key is not required.*

PLSeriesPrinter Section

To print labels to an Intermec® EasyCoder® PL4 Portable Printer, you must include an optional [**PLSeriesPrinter**] section. This section has two required keys, COMPort and BaudRate.

COMPort

This key specifies which COM port to use for printer communication. For example, to use Bluetooth to communicate to the printer and COM6 is used by Bluetooth, set the value to "COM6:"

BaudRate

This key identifies the speed of communication over the port. Using the previous example, set this value to "57600" for Bluetooth.

Keys Section

The [**Keys**] section is an optional section that can map specific keys to handle actions such as navigating home and opening other iBrowse dialogs such as the about dialog, exit dialog, and options dialog. The section also contains a value to enable the [F1] help key functionality.

Leaving any option blank results in disabling that option, preventing the user from using that option. The Options and Exit screens prompt for a password entry before allowing access to either screen. Any key used in this section are not available for data entry. For example, if the x key is mapped for exit, the user is not able to type in a value with an x. Keys mapped using the Meta tag IBrowse_OnKey preceed these persistent keys.

To remove a mapping that is in the INI file, pass a value of zero to the appropriate key using the IBrowse_UpdateINI Meta tag. See Appendix A, "*Custom META Tags for iBrowse*," for more information.

AboutKey

This key specifies a key value that brings up the About screen in iBrowse.

HomeKey

This key specifies a key value that navigates to the home page.

OptionsKey

This key specifies a key value that brings up the Options screen in iBrowse. The Password screen is displayed and requires a valid entry before the options screen is available.

ExitKey

This key specifies a key value that brings up the Exit screen in iBrowse. The Password screen is displayed and requires a valid entry before the user is allowed to exit iBrowse.

F1HelpKey

This key enables the [F1] help key option. Valid values are TRUE or FALSE. When set to TRUE and the [F1] key is pressed, the page specified in the [**Admin**] section **F1HelpPage** key is displayed to the user.

Sample INI File

Note: A semicolon is a comment.

```
[Admin]
;Homepage=file://\SDMMC%20Disk\home.htm
;Homepage=http://www.yahoo.com
Homepage=file://\windows\ibrowse\home.html
F1HelpPage=file://\windows\ibrowse\f1help.html
LinkNotFoundPage=file://\windows\ibrowse\notfound.html
Password=123456
DisableHomeCommand=false
DisableExitCommand=false
DisableOptionsMenu=false

[Display]
DisplayBatteryStatus=true
DisplaySignalStrength=true
UpdateInterval=30

[PLSeriesPrinter]
COMPort=COM6:
BaudRate=57600

[Scanner]
UseWedgeMode=false

[Keys]
;F2
HomeKey=0x71
;F3
OptionsKey=0x72
;F4
ExitKey=0x73
;F5
AboutKey=0x74
;will the F1 key bring up a help page
F1HelpKey=true
```

iBrowse Connectivity Messages

iBrowse requires a network connection to provide real-time web browsing. As a result, iBrowse issues network-specific messages when it has difficulty accessing the network.

"A Wireless network is not currently available"

This message is displayed when iBrowse starts running if iBrowse is unable to get signal strength from the 802.11 access point. Press **OK** to continue. This is an informational message only. The user should move to an area with better signal strength to allow web browsing.

"This device is not currently connected to the network. To continue searching for a network select OK. To cancel and continue with no network select Cancel."

This message can display on startup or when attempting to navigate a web page. This can display even when there is full signal strength because a connection to the access point does not guarantee a connection to the network that is hosting the web server.

Press **OK** to temporarily put iBrowse on hold while it searches for a network. If no network is found the same message is displayed again. If a network is found, the message "A Network has been found" is displayed.

Press **Cancel** for iBrowse to continue as if it had a valid connection to the network. In the background, it continues to search for a network but does not display a message when the network is found.

One common issue that causes this message to display is either not having a valid IP address or entering an invalid IP address for the gateway on the device.

"A Network has been found. Press OK to continue."

This message is displayed after the "This device is not currently connected to the network" message if **OK** was pressed to keep searching for a network and a network was found. Press **OK** to continue using iBrowse.

"An IP Address has not been assigned to this device."

This message is displayed on application startup if no IP address was assigned to the device. Press **OK** for iBrowse to continue without a valid IP address. This message may display if the device could not be assigned a DHCP IP address or if the device is set up to use static IP addressing and no IP address was entered.

2 Installing iBrowse

These instructions explain how to install the iBrowse application onto your 700 Series Mobile Computer and configure the 700 Series Computer for maximum performance.

For help with installing a storage media card, or a battery pack, or to learn about booting the 700 Series Computer, see the *700 Series Monochrome Mobile Computer Quick Start Guide* (P/N: 962-054-061) or the *700 Series Color Mobile Computer Quick Start Guide* (P/N: 962-054-053).

Note: *For the CK30 Handheld Computer*, the iBrowse application is preinstalled in your unit, thus installation is not necessary. To update the INI file on a CK30 Computer, go to the "\CK_FSS\IBROWSE" location.

Copying the CAB File

Note: When "DataCard" is mentioned, it references the folder name of the card you have installed in the device. This is usually "SDMMC Disk" or "Storage Card."

Copy the IBROWSE.CAB file to the "DataCard\CabFiles" folder on the 700 Series Computer. Warm-boot the device to install the CAB file automatically.

If the "CabFiles" folder is not already on the "DataCard." it may be necessary to create a "CabFiles" folder and install the "2577" directory that allows for automatic cab file extraction from the appropriate tools CD.

Do not tap on the CAB file via File Explorer to extract the file. This deletes the CAB file. Extracting the CAB file automatically on a reboot leaves the CAB file on the 700 Series Computer for future extractions in the event of a cold-boot.

The default INI file installed by the CAB file points to a sample web page that was installed to the 700 Series Computer. You need to change this INI file to point to your preferred homepage and to set up a password.

To update the INI file, copy the default INI file from the 700 Series Computer to your desktop, either with Microsoft Active-Sync or by removing the storage card from the 700 Series Computer and putting it into a card reader. In either case, the INI file is in the "DataCard\IBrowse" directory.

When changing the INI file it is important to not change the case or spelling of any of the section names or key names. Section names are contained in the [ ] brackets and key names are on the left side of the = equal sign. You can use most any text editor to modify the INI file, such as Notepad. When saving the INI file, save it as a standard ASCII file if that is the option.

Copy the modified INI file back to the storage card or back to the 700 Series Computer via ActiveSync.

Installing the iBrowse Application

Consider any of the following options to load your iBrowse application onto your 700 Series Computer.

- Microsoft ActiveSync
- FTP Server *(page 16)*
- Secure Digital or CompactFlash storage card *(page 17)*

Using Microsoft ActiveSync

For the 700 Series Monochrome Computer, go to the next paragraph.

For 700 Series Color Computer instructions, go to page 13.

700 Monochrome Computer

Note: These instructions assume that the 700 Monochrome Utilities portion of the *700 Series Monochrome Software Tools CD* was installed onto your desktop.

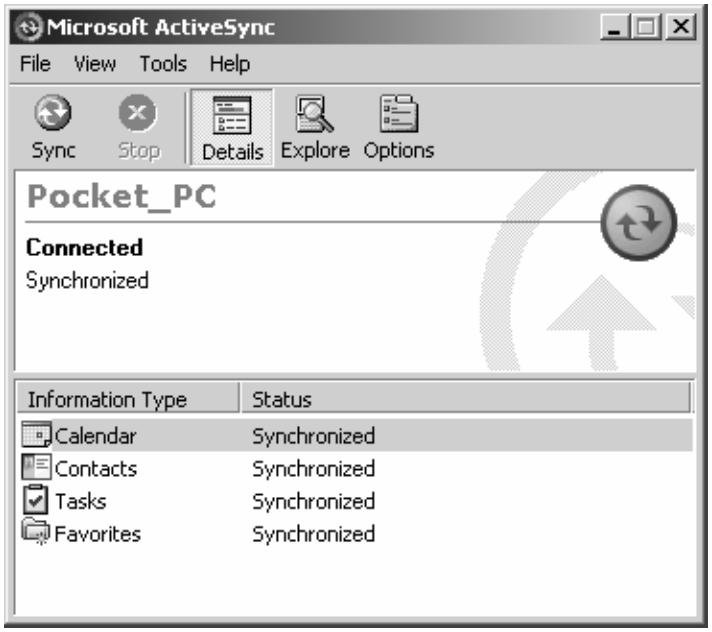
The Microsoft ActiveSync tool is located on the 700 Monochrome Companion CD. See the *700 Series Monochrome Mobile Computer User's Manual* (P/N: 961-054-032) for information about this tool as provided by Microsoft Corporation.

This can be a serial, USB, Ethernet, InfraRed, or 802.11b ActiveSync connection. Files can then be copied using File Explorer on a PC or a laptop computer. This option is usually only good when updating a few 700 Series Computers.

These instructions assume that Microsoft ActiveSync was installed onto your desktop computer and is up and running. If not, see the *700 Series Monochrome Mobile Computer User's Manual* for an URL from which you can download the latest application.

1 Connect your 700 Series Computer to your desktop computer via an ActiveSync cable or IrDA.

2 Wait for a "Connected" message to appear in the Microsoft ActiveSync application to signal a connection to the 700 Series Computer. If necessary, select **File** > **Get Connected** to initiate a connection.



3 Click **Explore** to access the Mobile Device directory on your 700 Series Computer.

4 From your desktop, select **Start** > **Windows Explorer**, then browse the "C:\Program Files\Intermec\TE2000" path for the IBROWSE.CAB file needed for your 700 Series Computer. Select this file, right-click the file for a pop-up menu, then select **Copy**.

5 Within the Mobile Device directory, select **My Pocket PC** > **Storage Card** > **cabfiles**.

6 Do a right-click for a pop-up menu, then select **Paste**.

7 When all of the files are pasted, perform a warm-boot on the 700 Series Computer. When the computer reboots, the newly copied CAB file automatically activates its utilities.

700 Color Computer

Note: These instructions assume that the 700 Color Management Tools portion of the *700 Series Color Software Tools CD* was installed onto your desktop.

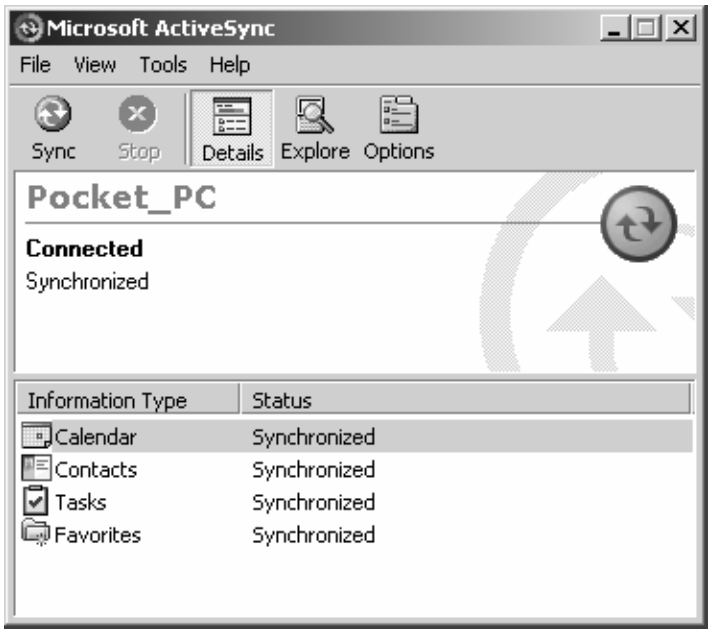
The Microsoft ActiveSync tool is located on the 700 Color Companion CD, which contains Microsoft products, such as Outlook and ActiveSync. See the *700 Series Color Mobile Computer User's Manual* (P/N: 961-054-031) for information about this tool as provided by Microsoft Corporation.

This can be a serial, USB, Ethernet, InfraRed, or 802.11b ActiveSync connection. Files can then be copied using File Explorer on a PC or a laptop computer. This option is usually only good when updating a few 700 Series Computers.

These instructions assume that Microsoft ActiveSync had been installed onto your desktop computer and is up and running. If not, see the *700 Series Color Mobile Computer User's Manual* for an URL from which you can download the latest application.

1 Connect your 700 Series Computer to your desktop computer via an ActiveSync cable or IrDA.

2 Wait for a "Connected" message to appear in the Microsoft ActiveSync application to signal a connection to the 700 Series Computer. If necessary, select **File** > **Get Connected** to initiate a connection.



3 Click **Explore** to access the Mobile Device directory on your 700 Series Computer.

4 From your desktop, select **Start** > **Windows Explorer**, then browse the "C:\Program Files\Intermec\TE2000" path for the IBROWSE.CAB file needed for your 700 Series Computer. Select this file, right-click the file for a pop-up menu, then select **Copy**.

5 *If you are using a Secure Digital storage card*, within the Mobile Device directory, select **My Pocket PC** > **SDMMC_Disk** > **cabfiles**.

If you are using a CompactFlash storage card, within the Mobile Device directory, select **My Pocket PC** > **Storage Card** > **cabfiles**.

6 Do a right-click for a pop-up menu, then select **Paste**. If you are using a CompactFlash storage card, skip to step #8.

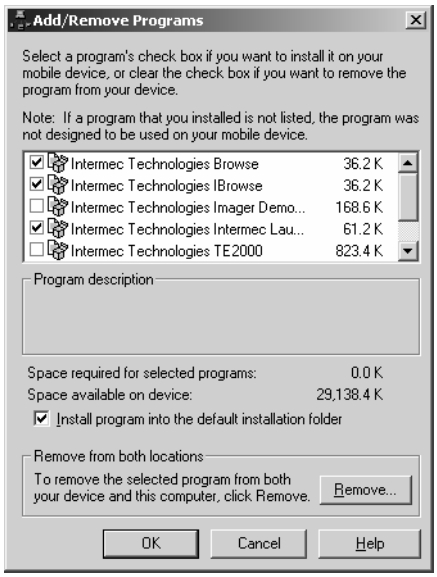
7 *If you are using a Secure Digital storage card*, create a subdirectory called "\2577" in the "SDMMC_Disk" folder on the Secure Digital storage card. Copy the AUTORUN.DAT, AUTORUN.EXE, and AUTOCAB.EXE files to this subdirectory. These files are located on your desktop in the "C:\Program Files\Intermec\TE2000" folder.

8 When all of the files are pasted, perform a warm-boot on the 700 Series Computer. When the computer reboots, the newly copied CAB file automatically activates its utilities.

Add/Remove Programs

If the **AutoStart Microsoft's CE Application Manager** option was checked to be installed onto your desktop, the following appears upon completion of your installation.

Check the items to be installed onto your 700 Series Computer, then click **OK** to continue.



Using the FTP Server

The 700 Series Computer has a built-in FTP Server that connects to a network via Ethernet or 802.11b. This allows connections to the 700 Series Computer to perform file transfers or computer management functions. You can also create FTP scripts to automate the process of copying files to the 700 Series Computer. This option is good for when a large number of 700 Series Computers need to updates. See the *700 Series Color Mobile Computer User's Manual* or the *700 Series Monochrome Mobile Computer User's Manual* for information.

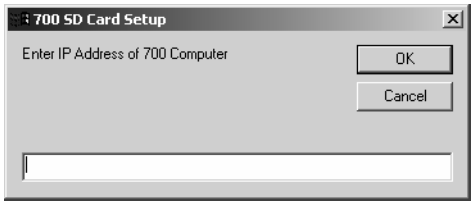
The following sample FTP scripts installed in the "C:\Program Files\Intermec\TE2000" location on your desktop via the TE 2000 Installation CD:

- The TE2000_FTP_CFCARD.BAT script file is for the CompactFlash storage card.
- The TE2000_FTP_SDCARD.BAT script file is for the Secure Digital storage card *(700 Color Computers only)*.

Or, use the VisualBasic script files to send the IBROWSE.CAB file to your 700 Series Computer. From your desktop, do this:

- *If you are using a CompactFlash storage card*, select **Start** > **Programs** > **Intermec** > **TE2000** > **ftp** > **TE2000_FTP_CFCard** to initiate this transfer.
- *If you are using a Secure Digital storage card (700 Color Computers only)*, select **Start** > **Programs** > **Intermec** > **TE2000** > **ftp** > **TE2000_FTP_SDCard** to initiate this transfer.

Enter the IP address of the 700 Series Computer to receive files, then click **OK** to initiate the file transfer. An MS-DOS dialog box appears to list the progress of the file transfer. When complete, the MS-DOS dialog box closes automatically and the 700 Series Computer performs a warm-boot.



Using a Storage Card

Use the following steps to install an application using a storage card.

Copying to a CompactFlash Storage Card

Note: You can use a CompactFlash storage card on either the 700 Monochrome Computer or the 700 Color Computer.

Follow the steps below to install the iBrowse application on the device using a CompactFlash storage card:

1. Suspend the 700 Series Computer and remove its CompactFlash drive, which holds a storage card.
2. Using a CompactFlash Adapter card, place the CompactFlash Drive in your desktop PC card drive.
3. In the "\Storage Card" folder, create a subdirectory called "\CabFiles" on the PCMCIA CompactFlash drive in which to store the CAB files.
4. Copy the CAB files to the "\CabFiles" subdirectory created on the CompactFlash drive.
5. Remove the CompactFlash drive from your desktop computer and reinstall it into the 700 Series Computer.
6. Warm-boot the 700 Series Computer to automatically extract these files.

Copying to a Secure Digital Storage Card

Note: You can only use a Secure Digital storage card on the 700 Color Computer.

Do the same steps as for the CompactFlash storage card, *except* replace steps 5 and 6 with the following:

- In the "SDMMC_Disk" folder, create a subdirectory called "\2577" on the Secure Digital storage card.
- Copy the AUTORUN.DAT, AUTORUN.EXE, and AUTOCAB.EXE files to this subdirectory. These files are located on your desktop in the "C:\Program Files\Intermec\TE2000" folder.

3 Configuring iBrowse

Before providing an updated device to the user, a device administrator must properly set up the device. Go to the next page to configure the 700 Series Computer or to page 30 to configure the CK30 Handheld Computer.

Configuring the 700 Series Computer

Before providing an updated 700 Series Computer to the user, a device administrator must properly set up the 700 Series Computer.

Note: Instructions are written for both Pocket PC 2002 and Windows Mobile 2003 operating systems.

Go to page 25 for Windows Mobile 2003 instructions.

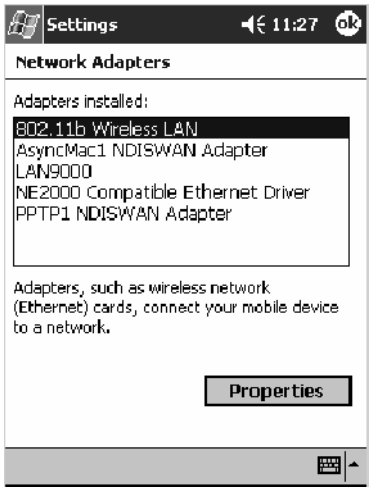
Pocket PC 2002 Instructions

The following instructions pertain to the Pocket PC 2003 operating system. See Revision C of the *700 Series Color Mobile Computer User's Manual* P/N: 961-054-031 or Revision A of the *700 Series Monochrome Mobile Computer User's Manual* P/N: 961-054-032 for more information about this operating system.

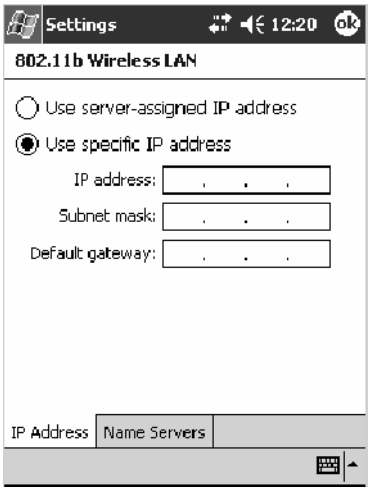
Setting the Appropriate IP Addresses or DHCP Settings

These instructions modify the 802.11b Wireless LAN. There are other variables that may need setting up to get on a network. Contact your Intermec representative for more information.

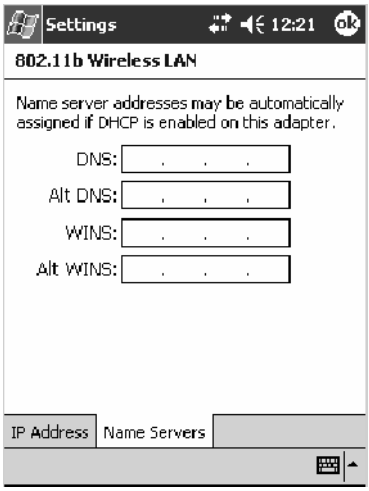
1 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Network Adapters**. If you need to enter specific server information, tap the 802.11b Wireless LAN adapter for its properties.



2 *To change the IP addresses*, tap **Use specific IP address**, then enter the appropriate IP addresses.



3 *To change the DHCP addresses*, tap the **Name Servers** tab, then enter the appropriate addresses.



4 Tap **ok** to save and exit 802.11b Wireless LAN properties.

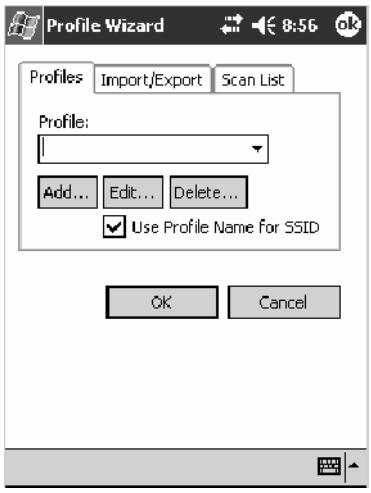
Setting the Appropriate Wireless Network Settings

Note: See the *700 Series Color Mobile Computer User's Manual* for information about the Profile Wizard.

Wireless Network

1 On the 700 Series Computer, tap **Start** > **Settings** > the **System** tab > **Wireless Network** to access the Profile Wizard.

2 Use the Profiles page to add, edit, or delete multiple networking environments for this 802.11b radio. To add a profile from this screen, enter up to 32 alphanumeric characters in the **Profile** field, then tap **Add**.



3 To edit a profile, select an existing profile from the **Profile** drop-down list, tap **Edit**, make the changes needed for this profile (starting in the next paragraph), then tap **OK** to return to the Profiles page.

4 To delete a profile, select a profile from the **Profile** drop-down list, tap **Delete**, then tap **Yes** to remove the selected profile.

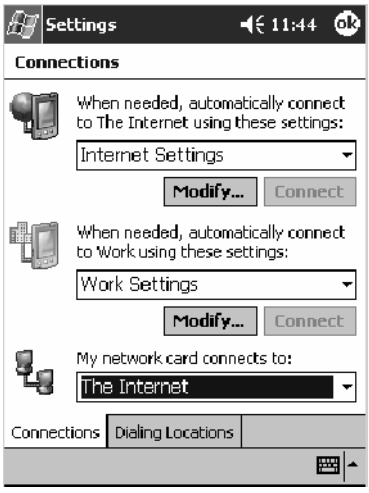
5 Tap **ok** to save your changes and exit the wizard.

Setting the Appropriate Connection Method

1 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Connections**, then set **network card connects to** to "the Internet".

1 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Connections**.

2 Select "The Internet" from the **My network card connects to** drop-down list.



3 Tap **ok** twice to save your changes and exit Connections.

Saving the System Configuration

Use the RegFlushKey() API to save the system configuration, via the registry, if desired.

If you are using the RegFlushKey() API, the application must use a special API to make sure the registry is written to the appropriate card; or you can use the **Utilities** control panel applet, as follows. See Appendix A, "*Configurable Settings*," for more information about this applet.

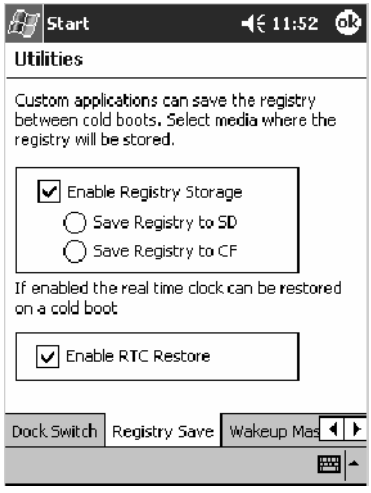
1 From the 700 Series Computer, tap **Start** > **Settings** > the **System** tab > the **Utilities** icon > the **Registry Save** tab.

2 Tap **Enable Registry Storage**, tap either of the following:

- **SD** to write the registry to the Secure Digital storage card.
- **CF** to write the registry to the CompactFlash storage card.

Note: In software builds 1.30 or later, there is a third option, **FL**, for the Flash File Store — *do not select this option.* Contact your Intermec representative for more information.

3 Tap **ok** to save your entry and exit the **Utilities** control panel applet.



Windows Mobile 2003 Instructions

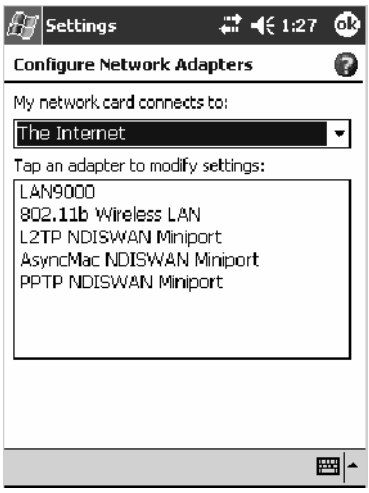
The following instructions pertain to the Windows Mobile 2003 operating system. See Revision E of the *700 Series Color Mobile Computer User's Manual* P/N: 961-054-031 for more information about this operating system.

Setting the Appropriate IP Addresses or DHCP Settings

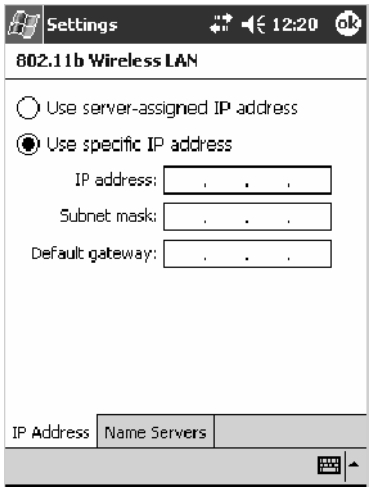
These instructions modify the 802.11b Wireless LAN. There are other variables that may need setting up to get on a network. Contact your Intermec representative for more information.

4 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Connections** > the **Advanced** tab > **Network Card**.

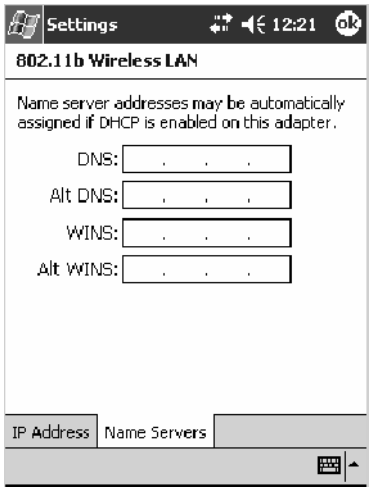
5 Tap the **Network Adapters** tab. If you need to enter specific server information, tap the 802.11b Wireless LAN adapter for its properties.



6 *To change the IP addresses*, tap **Use specific IP address**, then enter the appropriate IP addresses.



7 *To change the DHCP addresses*, tap the **Name Servers** tab, then enter the appropriate addresses.



8 Tap **ok** to save and exit 802.11b Wireless LAN properties.

Setting the Appropriate Wireless Network Settings

Note: See the *700 Series Color Mobile Computer User's Manual* for information about the Profile Wizard.

Wireless Network

1 On the 700 Series Computer, tap **Start** > **Settings** > the **System** tab > **Wireless Network** to access the Profile Wizard.

2 Use the Profiles page to add, edit, or delete multiple networking environments for this 802.11b radio. To add a profile from this screen, enter up to 32 alphanumeric characters in the **Profile** field, then tap **Add**.

3 To edit a profile, select an existing profile from the **Profile** drop-down list, tap **Edit**, make the changes needed for this profile (starting in the next paragraph), then tap **OK** to return to the Profiles page.

4 To delete a profile, select a profile from the **Profile** drop-down list, tap **Delete**, then tap **Yes** to remove the selected profile.

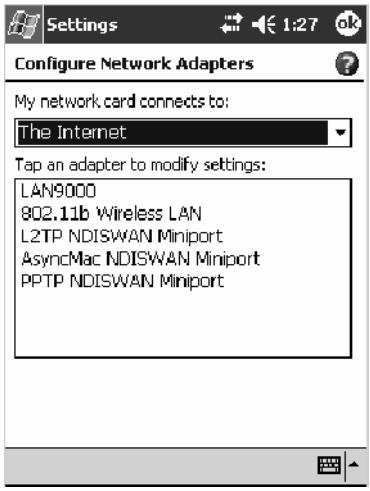
5 Tap **ok** to save your changes and exit the wizard.

Setting the Appropriate Connection Method

1 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Connections**, then set **network card connects to** to "the Internet".

1 On the 700 Series Computer, tap **Start** > **Settings** > the **Connections** tab > **Connections** > the **Advanced** tab > **Network Card**.

2 Tap the **Network Adapters** tab. Select "The Internet" from the **My network card connects to** drop-down list.



3 Tap **ok** twice to save your changes and exit Connections.

Saving the System Configuration

Use the RegFlushKey() API to save the system configuration, via the registry, if desired.

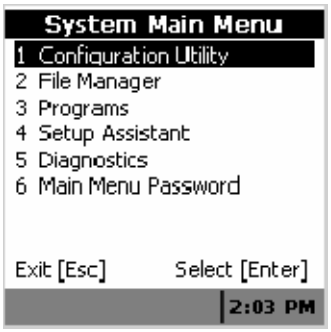
If you are using the RegFlushKey() API, the application must use a special API to make sure the registry is written to the appropriate card; or you can use the **Utilities** control panel applet, as follows. See Appendix A, "*Configurable Settings*," for more information about this applet.

1. From the 700 Series Computer, tap **Start** > **Settings** > the **System** tab > the **Utilities** icon > the **Registry Save** tab.
2. Tap **Enable Registry Storage** to save the registry in the Flash File System (PSM) via the "\Flash_File_Store\Registry" path.
3. Tap **ok** to save your entry and exit the **Utilities** control panel applet.

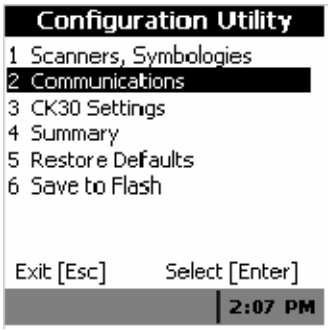
Configuring the CK30 Handheld Computer

Before providing an updated CK30 Computer to the user, a device administrator must properly set up the CK30 Computer.

1 On the CK30 Computer, press green ⊐■, then orange ■⊐, to access the System Main Menu, then press [1] for the Configuration Utility.



2 Press [2] to configure the communications.



3 When done configuring communications, press [Esc] to return to the Configuration Utility. See your Intermec representative for more information about these communications.

4 Press [6] to save these settings to flash, to preserve these settings during a cold-boot procedure.

4 Running iBrowse

The iBrowse application does not start up automatically.

Go to the next page for information on starting up iBrowse on your 700 Series Computer.

Go to page 36 for information on starting up iBrowse on your CK30 Handheld Computer.

700 Series Computers

To start iBrowse, tap **Start** > **Browse**. If you need iBrowse to start automatically, you can create a shortcut to it in the "\Windows\Startup" folder. You can also add an AUTOUSER.DAT file to the "\DataCard" folder in the system.

For information on how to use AUTOUSER.DAT file, see your technical documentation for your device or contact Customer Support.

The following information pertains to both the 700 Monochrome Computer and the 700 Color Computer.

Navigation Bar

Below is a sample of the navigation bar in iBrowse.

Tools Menu

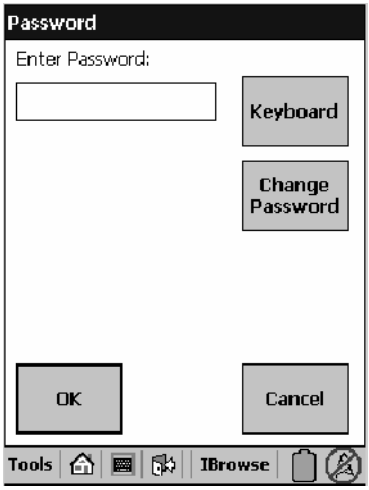
Under the **Tools** Menu, you can look at copyright information or change the home page.

About

Tap **Tools** > **About** to view the following copyright information for iBrowse (About). Tap **OK** to close.

Options

Tap **Tools** > **Options** to change the home page iBrowse is to use. The same password required to exit the application is also required to enter the Options page.



Icons

These standard icons are not needed by most users as their web pages actually control the application flow. Additional icons can appear in the right-hand side of the navigation bar to indicate battery level and radio signal strength. See "*The INI File Explained*" in Chapter 1 or "*Custom META Tags for iBrowse*" in Appendix A for information on how to enable and disable icons.

Tap the **Home** icon to start back at the default home page.

Tap the **Keyboard** icon to bring up and put away the pop-up keyboard. When you need to enter alphabetic information, tap this icon to display the onscreen keyboard. Special considerations were added to iBrowse so the onscreen keyboard only appears when you tap the keyboard icon. HTML files do not need modification to prevent the keyboard from appearing automatically.

Tap **Exit** to access a Password dialog through which those with a password can exit iBrowse. The password is set up in the BROWSE.INI file.

Battery and Signal Strength Icons

The following Battery and Signal Strength icons are available for the navigation bar:

Battery Icons

The battery has approximately 100–80% of capacity *(green)*.

The battery has approximately 80–60% of capacity *(green)*.

The battery has approximately 60–40% of capacity *(green)*.

The battery has approximately 40–20% of capacity *(red)*.

The battery has approximately 20–0% of capacity *(red exclamation point)*.

The battery is currently charging *(blue with yellow bolt)*.

Unknown — The battery status is not available *(blue question mark)*. If this icon persists for several minutes, there may be a problem with the battery.

Signal Strength Icons

Excellent — An excellent connection exists between the wireless radio and the access point *(three green cells)*.

Average — An average connection exists between the wireless radio and the access point *(two green cells)*.

Poor — A poor connection exists between the wireless radio and the access point. You should move closer to the access point to prevent losing a connection *(one green cell)*.

Unavailable — Wireless network is currently unavailable. This occurs if the device is out of range of the access point or if the wireless network drivers are not loaded *(red antenna)*.

Note: Signal strength only indicates there is a connection between the wireless radio and an access point. The device can connect to the wrong access point if the wireless connection is not set up properly. Also, if the device is connected to the correct access point, it still may not connect to the network if the devices network settings were not properly configured.

Uninstalling iBrowse

No automatic uninstallation is available at this time. To uninstall iBrowse, remove the following files:

```
\windows\start menu\Browse.lnk
\windows\IBrowse\*.*
DataCard\IBrowse\*.*
DataCard\Cabfiles\IBrowse*.cab
```

where *DataCard* is the folder name of the card you have installed in the device. This is usually "SDMMC Disk" (CompactFlash) or "Storage Card" (Secure Digital).

TE Version of iBrowse

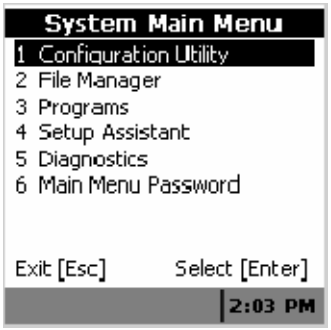
The Terminal Emulation (TE) version of iBrowse is slightly modified from the regular version. The TE version comes with an INI file that does not require a password to exit.

The TE version also enables the application keys (A1–A4), which are are set up by the iLaunch application. Press [A1] to start TE 2000, press [A2] to start iBrowse, press [A3] or [A4] to start iLaunch.

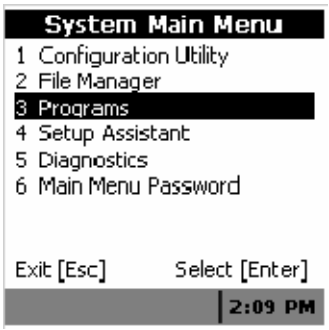
CK30 Handheld Computers

To start iBrowse, do the following:

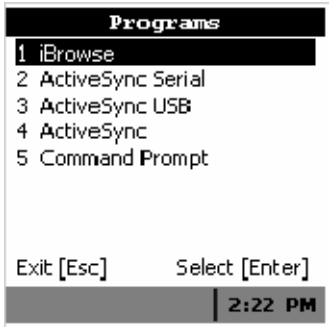
1 Press Green ▭■, then Orange ■▭, on the CK30 keypad to access the System Main Menu.



2 Press [3] to access your programs.

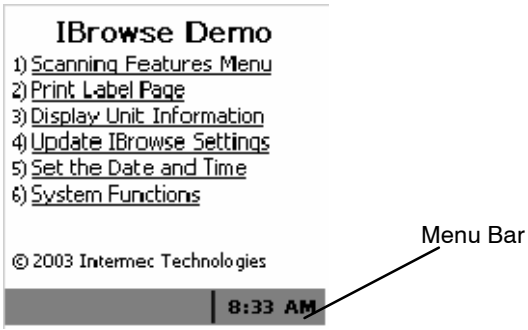


3 Select the iBrowse application. *Note that the option number may change depending on what applications are installed on your CK30 Computer.*



Navigation Bar

The navigation bar is not available on CK30 Computers. iBrowse leaves the standard menu bar at the bottom of the screen to show signal strength, battery, and keyboard information (like shift state).



Keyboard Navigation

To navigate on the CK30, keymappings are added to the INI file to perform the same functions as on the 700 Series Computer navigation bar. These key mappings are not limited to the CK30 Computer, they may also be used on the 700 Series Computer if keyboard navigation is desired. See the [**Keys**] section of the INI file for information on setting up specific keys for these functions.

Key	Description
About	Use the **AboutKey** value in the INI file to enable a key press to bring up the About screen. The default setting for this is [F5].
Options	Use the **OptionsKey** value in the INI file to enable a key press to bring up the Options screen. The password screen is displayed first to prompt for the correct password before continuing. The default setting for this is [F3].
Exit	Use the **ExitKey** value in the INI file to enable a key press to bring up the Exit screen. The password screen is displayed first to prompt for the correct password before continuing. The default setting for this is [F4].
Home	Use the **HomeKey** value in the INI file to enable a key press to navigate to the Home page. The default setting for this is [F2].

Battery and Signal Strength Icons

The following Battery and Signal Strength icons are available for the CK30 Computer:

Battery Icons

The battery is half full. You should work for several more hours before changing batteries.

The battery is low. You need to replace this soon.

The battery is critically low. You need to replace this now.

The backup battery is low.

Signal Strength Icons

Strong connection to the access point.

Good connection to the access point.

Weak connection to the access point.

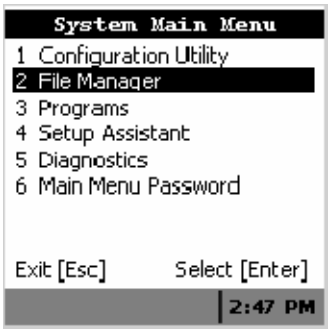
No connection to the access point.

Note: Signal strength only indicates there is a connection between the wireless radio and an access point. The device can connect to the wrong access point if the wireless connection is not set up properly. Also, if the device is connected to the correct access point, it still may not connect to the network if the devices network settings were not properly configured.

Uninstalling iBrowse

No automatic uninstallation is available at this time. To uninstall iBrowse, do the following:

1 On the CK30 Computer, press green ▭■, then orange ■▭, to access the System Main Menu, then press [2] to access the File Manager.



2 Press the appropriate number for the "CK_FSS" directory, then the appropriate number for the "Persistent Copy" directory. Depending on how your system is configured, press [7] or the ▲ or ▼ keys to scroll to and highlight the CK30Ibrowse.cab file. Press the following keys to delete this file.

- On 52-key and 42-key keyboards, press [Green] ▭■ ←
- On 50-key keyboards, press [Func] [Green] ▭■

Below is the path to this file:
`\CK_FFS\Persistent Copy\CK30Ibrowse.cab`

3 Press [1] to go back to the previous screen, then press the appropriate number to access the "Windows" directory. Press the ▲ or ▼ keys to scroll to and highlight the "IBrowse" directory. Press the following keys to delete this directory:

- On 52-key and 42-key keyboards, press [Green] ▭■ ←
- On 50-key keyboards, press [Func] [Green] ▭■

Below is the path to this directory:
`\CK_FFS\Persistent Copy\Windows\IBrowse`

4 Press [Esc] twice to back up to the "CK_FFS" directory, then press the ▲ or ▼ keys to highlight the "IBrowse" directory. Press the following keys to delete this directory:

- On 52-key and 42-key keyboards, press [Green] ⊐■ ←
- On 50-key keyboards, press [Func] [Green] ⊐■

Below is the path to this directory:
`\CK_FFS\IBrowse`

5 Press [Esc] to back up to the root directory, press [7], then the appropriate number to move to the "Windows" directory. Press the ▲ or ▼ keys to highlight the "IBrowse" directory, then press the following keys to delete this directory:

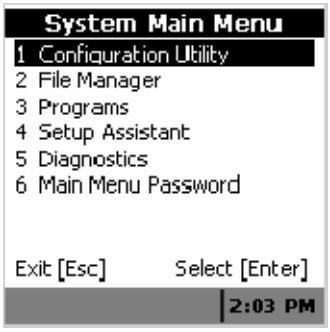
- On 52-key and 42-key keyboards, press [Green] ⊐■ ←
- On 50-key keyboards, press [Func] [Green] ⊐■

Below is the path to this directory:
`\Windows\IBrowse`

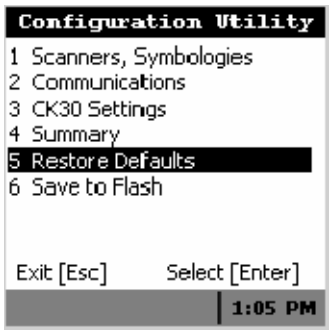
Note: You could use the following step to restore the registry to its default settings, but this does remove changes from all applications that have modified the registry. Therefore, only use step 6 if you need to restore the device to its initial state.

6 Do the following to restore the device to its initial state:

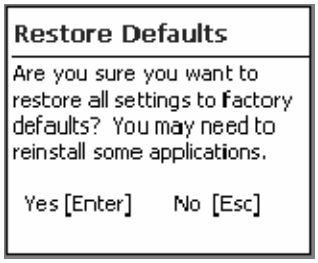
a Press [Esc] twice to return to the System Main Menu, then press [1] to access the Configuration Utility.



b Press [5] to restore the defaults.



c Press [Enter] to continue. The CK30 then shuts down. You will have to power the unit back on.



TE Version of iBrowse

The Terminal Emulation (TE) version of iBrowse is not available for the CK30 Computer.

Printing With the LinePrinter ActiveX Control

In addition to META tag printing to Intermec PL3 Portable Printers, it is possible to print to all Intermec mobile printers via the Line Printer ActiveX control. For more information on printing to a PL3 Printer, see "*The INI File Explained*" in Chapter 1 and *"Custom META Tags for iBrowse*" in Appendix A.

The version of the LinePrinter ActiveX control that prints from a web page is not currently available in a released tool kit. To download the latest version and a sample print page go to: http://www.intermec.com/developersupport.

Scanning From iBrowse

Note: iBrowse only supports built-in scanners, *not* tethered scanners.

Three different methods for scanning are available. Use care when deciding which method to use because it can have an impact on how the web pages are designed. The three methods are:

Wedge	You can press the trigger for the scanner at any time to display the aiming beam. If a valid bar code is successfully decoded, the data returned is wedged into the keyboard buffer. The control with the current focus receives the data. You do not have to add unique Intermec tags or code to the HTML page for this mode. Set the **UseWedgeMode** key in the INI file to TRUE and any <input> text box is able to get the scanned data when it has focus. *NOTE: You must use this mode if the web pages where the user need to scan contain bookmarks or frames.*
META Tags	When using the META tag method, the scanner is disabled when iBrowse starts and is enabled on a page-by-page basis. In addition, you can use the META tags to automatically pass the scanned data to another web page, to a JavaScript function, or to continually fire and receive data from the scanner. If the wedge mode is enabled, automatic enable and disable of the scanner does not function but you can still enter data into the control from wedge mode. For more information on this method of scanning, see "*Custom META Tags for iBrowse*" in Appendix A.
ITCAXEdit ActiveX control	iBrowse installs a custom ActiveX edit control that is used from within web pages in place of <input> tags. This control has a property that enables the scanner on a field-by-field basis. When the control loses focus, the scanner is disabled. If the wedge mode is enabled, this mode does not function but you can still enter data into the control from wedge mode. For more information on this method of scanning, see the **ENABLESCANNER** function in "*Using the ITCAXEdit Control on a Web Page*" in Appendix B.

Designing Web Pages for iBrowse

Some key things to consider when designing web pages for iBrowse.

- iBrowse is based on Pocket Internet Explorer which supports the following technology versions:
  - HTML V3.20
  - JavaScript 1.2
  - ActiveX components
  - XML and XSL
  - WML
- CK30 Computers and devices with Pocket PC (Windows Mobile) 2003 support the following:
  - HTML V4.01
  - Extensible HTML (XHTML)
  - Cascading style sheets
  - Microsoft JScript version 5.5
  - Enhanced scripting and Document Object Model support
  - Wireless Markup Language (WML) 2.0 (XHTML + WML 1.x)
  - Internet Protocol version 6 (IPv6) in IPv4/IPv6 mixed-mode environments
- Force the user to follow a specific path. In most situations, the HTML should lead the user through a narrow path for entering or processing information. Pages designed for the desktop browser usually have dozens of links on each page providing a user a myriad of paths on which to continue. In the business environment, it is usually more useful to force the user down a select path so a full set of information is gathered. The limited screen area is also a factor in providing a limited number of links.

- Limited Screen space. Because of the limited screen area on Pocket PC (Windows Mobile) devices, design screens and images to fit the display. The area that iBrowse has to display a web page on 700 Series Computers is approximately 235 pixels wide by 290 pixels high if there are no scroll bars on the screen. When scroll bars are added, the number of pixels is decreased by about 15 (220x275).

  For CK30 Computers, the area to display is approximately 160 pixels wide by 140 pixels high.

- Throughput. In a wireless environment, throughput is affected by signal strength. The lower the signal strength from the access points, the slower the throughput. For this reason, it is best to design the pages as small as possible. Use graphics sparingly. Find ways to split large pages into two or more pages that the user can step through. This prevents the user from long waits when they are in a low coverage area. Optimally, the pages are transferred at 11 Mbps but they can also be as low as 2 Mbps.

- Frames and Bookmarks. Due to the limited screen space and throughput concerns, frames and bookmarks are not recommended. A page that has two frames actually ends up downloading three different web pages. A page with bookmarks may be set up to show the users several different views of data or provide several different forms to fill. This page takes longer to download and the scroll bar that is at the side of the screen could easily confuse a new user if they accidentally scroll to a different section of the page. META tags that work on a per-page basis do not function in frame and bookmark pages.

- Keyboard versus stylus input. When possible, the user should navigate through the web pages using the keypad because it is more convenient and efficient. The stylus is often lost by users, which then requires the use of a finger or another object as a stylus. These substitutes are rarely small enough to tap on the correct item without several tries. You can set the **META Tag OnKey** feature keys on the keypad to run a Javascript or navigate to a new page with a single keystroke. You can set up a screen full of links like a menu so each link is assigned a number. The user could then press that number on the keypad instead of having to tap on the screen. When a user is required to tap on the screen, make sure the button or link is large enough for easy selection with a finger.
- Pages designed to fit on the screen. Because of the limited screen space, throughput, and difficulties scrolling with the scroll bars provided, design each page to fit on the screen without showing the scroll bars.

Evaluation Version of iBrowse

Evaluation versions of iBrowse are available. These versions allow some restricted use. The iBrowse application performs normally with the exception that it occasionally brings up a reminder that the version of iBrowse used is only an evaluation version.

You have 60 days from the date you first start using the evaluation version of iBrowse to either purchase a license or quit using iBrowse. If you decide to purchase licenses for iBrowse, please contact your Intermec representative.

A license is required for each device that runs iBrowse. The part number to purchase a single license is 235-106-001. Before a full version is delivered, you must contact Purchasing and fill out a Purchase Agreement.

iBrowse Limitations and Restrictions

- iBrowse does *not* lock down other applications.
- iBrowse does *not* save the registry to a storage device.
- iBrowse only runs on 700 Monochrome Computers, 700 Color Computers, or CK30 Handheld Computers with standard operating systems.
- iBrowse may break out of the locked-down mode if the Connection Manger is not set to properly allow a device to connect to the network.
- Although it is believed that iBrowse has the same capabilities as Pocket Internet Explorer, this may not be so in all situations. Report any discrepancies between the functionality of Pocket Internet Explorer and iBrowse.

Troubleshooting iBrowse

When starting iBrowse, the following message is displayed:

```
Trouble Connecting – Unable to connect with current
settings . . .
```

- This message is displayed when the device was not properly configured to connect to the Internet. See Chapter 2, "*Installing iBrowse*," for details on the proper set up for the device.

When starting iBrowse, the wait cursor is displayed and a web page is never displayed.

- Verify that a valid INI file is in the directory with the iBrowse application.
- Verify that the device is properly set up to connect to the network. See Chapter 2, "*Installing iBrowse*" for details on proper set up for the device. The CORE application on the 700 Series Computer can help determine whether you are connected to a network. Contact Customer Support if you need help connecting to the network.
- When removing the card from the device to update the INI file, make sure to properly stop or eject the card before removing it from your desktop. The method to do this differs based on the type of card reader you use.

iBrowse does not render my web pages the same way as my desktop version of Internet Explorer.

- This is because iBrowse uses some of the internal code of Pocket Internet Explorer (PIE). PIE does not support all of the features and functionality of the desktop version of Internet Explorer.

Jscript/JavaScript does not behave as expected on iBrowse.

Enable scripting error by creating the following key and value. For more information on this topic, see the Pocket PC SDK online help, then tap **Find** to search for "Scripting".

[HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main]"ShowScriptErrors"=dword:00000001

When using ActiveX controls, mark the controls as "Safe for Scripting" when they are compiled. Controls not marked "Safe for Scripting" are not allowed to run from Jscript. For more information on this topic, see the Pocket PC SDK online help, then search for "Declaring Your Control as 'Safe for Scripting'".

When starting iBrowse, if a blank screen is displayed:

- Make suree the CK30 Computer is running a standard operating system.
- Ensure the CK30 Computer is connected to a network.
- Ensure that a gateway or default router is set.

The following message appears when iBrowse is started:

```
A Wireless network is not currently available
```

- iBrowse ensures the device has network access before starting up. If no signal strength is found from the wireless radio, then this message is displayed. This is an indication that the wireless network settings were not properly configured.

Microsoft ActiveSync does not work after installing iBrowse.

- iBrowse disables ActiveSync to help maintain its locked-down mode. To enable ActiveSync, exit iBrowse, go to **Start** > **ActiveSync**, then select **Tools** > **Options** in the bottom left corner. In this screen, you can enable ActiveSync. You have to do this after each time you run iBrowse.

- The Browse.CAB installation file also changes the connections settings from "work" to "internet" to simplify the process of connecting to a network. If a network ActiveSync connection is required, change the connection setting back to "work". To do this, go to **Start** > **Settings** > the **Connections** tab > **Connections** > the **Advanced** tab > **Network Card** > the **Network Adapters** tab. Select "Work" from the **My network card connects to** drop-down list.

Note: These instructions are written for Windows Mobile 2003.

When moving between edit fields on a web page, the onscreen keyboard disappears and takes several taps on the keyboard icon to bring it back up.

This is usually because the INPUT tag lacks the type attribute. To correct this problem, ensure that all <input> tags include 'type="text"'. For example <input type="text" name="Field1"size="12" ID="Text1">

Bluetooth does not seem to set up correctly after a cold-boot.

There was an issue with the installation process. Bluetooth would install its drivers and then required some user interaction to finish setting it up. In the meantime, iBrowse would install and tell the device to reboot. This meant Bluetooth was never installed correctly. This issue was fixed with some updated system software. Updated versions of AUTORUN.EXE and AUTOCAB.EXE can be found on the *700 Color Tools CD* version 1.08 or greater or on the *Intermec Developer's Library CD*.

The scanner is enabled on a page on which it should not be enabled.

Older versions of the 700 Color Computer operating system did not correctly disable the imager. This is corrected in versions 1.31 and newer. *Note that this pertains to built-in scanners, tethered scanners are not supported.*

The scanner is not enabled on a page and it should be.
If using META tags, this issue can occur when a page is made of frames or bookmarks. The only current options are to use wedge mode scanning or the ITCAXEdit control for scanning. *Note that this pertains to built-in scanners, tethered scanners are not supported.*

Contacting Customer Support

When contacting Customer Support, be sure to provide the following information:

- Model number of the device
- Version number of the operating system
- Version number of the I_Browse Software

For technical support on your Intermec product, call 1-800-755-5505, then select option 2.

See *Before You Begin* for additional support information.

A Custom META Tags for iBrowse

Some custom META tags were defined for the iBrowse web browser. These tags allow web pages to enable specific functionality in the browser. These tags do not work on web browsers other than iBrowse. You can specify multiple META tags on each page. There are two parts to each tag, the "HTTP-Equiv" and the "content". The case of the META tags do *not* prevent them from incorrect interpretation. Following is a list of all available tags and information on how to use them.

If META tags are used, the HTML should not use frames or bookmarks. When navigating to certain frames or to a bookmark, iBrowse does not read the META tags and so the single page settings like IBrowse_Scanner is not available.

All sample HTML in this appendix are provided as is. For working examples of most META tag features, see the sample HTML files installed by the iBrowse CAB file in the "\Windows\IBrowse\" folder on your Intermec device.

IBrowse_Command

When this tag is encountered, the iBrowse application immediately exits without displaying a password prompt.

Syntax

```
HTTP-Equiv="IBrowse_Command"
content="exit"
```

Comments

This allows the HTML to control when the user can exit the application. This tag applies only to the page on which it is located.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=" IBrowse_Command" content="exit">
</HEAD>
<BODY>
   <P>You should not be seeing this right now.</P>
</BODY>
</HTML>
```

IBrowse_GetUnitInformation

This tag retrieves valuable information about the unit on which iBrowse is running. Three items of data are returned in the following order: serial number, UUID (a globally unique Pocket PC identifier), and current iBrowse version number.

Syntax

```
HTTP-Equiv="IBrowse_GetUnitInformation"
content= URL | Javascript function
```

Comments

The URL or Javascript placed in the content tag is not executed until the entire page has loaded. This tag applies only to the page on which it is located.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_ GetUnitInformation"
Content="file://\windows\infotest..html?serialnum=%s&uuid=%s&appversion=%s">
   <!-or ->
   <META HTTP-Equiv="IBrowse_ GetUnitInformation"
Content="Javascript:ShowUnitInfo('%s', '%s', '%s');">
   <SCRIPT> LANGUAGE=JAVASCRIPT>
   function SetUnitInfo(serial,uuid,version)
   {
      document.Frm3.Fld1.value = serial;
      document.Frm3.Fld2.value = uuid;
      document.Frm3.Fld3.value = version;

      document.Frm3.Fld1.focus();
   }
   </SCRIPT>

</HEAD>
<BODY onload="document.Frm3.Fld1.focus()">
   <form name="Frm3">
   <table id="AutoNumber1">
      <tr><td width="100%">SerialNumber:</td></tr>
      <tr><td width="100%"><input type="text" name="Fld1"
size="20"></td></tr>
      <tr><td width="100%">UUID:</td></tr>
      <tr><td width="100%"><input type="text" name="Fld2"
size="50"></td></tr>
      <tr><td width="100%">Version:</td></tr>
      <tr><td width="100%"><input type="text" name="Fld3"
size="12"></td></tr>
      <tr><td width="100%" colspan="2"> </td></tr>
      </table>
      </form>
</BODY>
</HTML>
```

IBrowse_OnKey

This changes the action of a particular key. The key mapped is mapped for the current page only. The key value, 0x1b, in the following example, can be either a hexadecimal value (0x1b) or a decimal value (27).

Syntax

```
HTTP-Equiv="IBrowse_OnKey0x1b"
content= URL | Javascript function
```

Comments

The content can include a web page to navigate to or a Java Script function to perform. This tag affects only the page on which it is placed, so do any key remapping on a page-by-page basis. You must precede hexadecimal values by 0x. You cannot remap system keys such as [A1] in the TE version of iBrowse.

Note: Keys mapped in this method take precedence over persistent keymappings like those done in the [**Keys**] section of the INI file.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=" IBrowse_OnKey0x1b" content="
http://appserver\home.htm">
   <META HTTP-Equiv=" IBrowse_OnKey032" content="
http://appserver\page1.htm">
   <META HTTP-Equiv=" IBrowse_OnKey49" content="
Javascript:OnKeyOne();">
   <script>
   function OnKeyOne()
   {
      alert("the 1 key was pressed");
   }
   </script>

</HEAD>
<BODY>
   <H2>Key Mapping</H2>
   <P>Press the escape key to return to the home page</P>
   <P>Press the space key to go to page 1</P>
   <P>Press the 1 key will show an alert</P>
</BODY>
</HTML>
```

IBrowse_Reboot

This forces the 700 Series Computer or the CK30 Handheld Computer to reboot.

Syntax

```
HTTP-Equiv="IBrowse_Reboot"
content="cold | warm"
```

Comments

The device immediately reboots when this tag is encountered. A warm boot loses any work or files not saved to storage. A cold boot clears the device of all memory except for the memory stored on non-volatile media, such as a CompactFlash card, Secure Digital card, or the Flash File System. A cold boot may also lose certain settings like the wireless network settings. Use the RegFlushKey() API to help prevent the loss of device specific settings. *Use extreme care before using these tags*.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=" IBrowse_Reboot" content="warm">
</HEAD>
<BODY>
   <H2>Reboot Test</H2>
</BODY>
</HTML>
```

IBrowse_SetDate

This updates the system date on the 700 Series Computer or the CK30 Handheld Computer. If an invalid value is passed, the date is not changed.

Syntax

```
HTTP-Equiv="IBrowse_SetDate"
content="02/01/2003"
```

Comments

The date passed in the content tag must be the current GMT date. in mm/dd/yyyy format. You can use characters other than the forward slash (/) to separate the month, day, and year. Valid separators are the backslash (\ ), forward slash (/), comma (,), and hyphen (-) characters.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_SetDate" content="02/01/2003">
</HEAD>
<BODY>
   <H2>The date has been updated</H2>
</BODY>
</HTML>
```

IBrowse_SetTime

This updates the system time on the 700 Series Computer or the CK30 Handheld Computer. If an invalid value is passed, the time is not changed.

Syntax

```
HTTP-Equiv=”IBrowse_SetTime”
content=”15:35”
```

Comments

The time passed in the content tag must be the current GMT time. The device converts the time using the set time zone. This is useful when there are multiple units spread across different time zones. The time zone can be set on the device at system startup and saved by using the RegFlushKey API so you do not need to reset the time zone on a cold boot. You can use characters other than a colon (:) to separate the hours and minutes. Valid separators are the colon (:) and semicolon (,) characters.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=”IBrowse_SetTime” content=”15:35”>
</HEAD>
<BODY>
   <H2>The time has been updated</H2>
</BODY>
</HTML>
```

IBrowse_SIPUp

Note: This is not available for the CK30 Handheld Computer.

You can specify this tag when the onscreen keyboard is required for data entry. When this tag is specified, the onscreen keyboard is enabled. The user may still disable the onscreen keyboard by tapping on the keyboard icon on the navigation bar at the bottom of the screen.

Syntax

```
HTTP-Equiv="IBrowse_SIPUp"
content=""
```

Comments

No text is required in the content tag but you must specify the content tag for this META tag to work successfully. This tag affects only the page on which it is placed. Navigating to another page disables the onscreen keyboard.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_SIPUp" content="">
</HEAD>
<BODY>
   <H2>The SIP is now displayed</H2>
</BODY>
</HTML>
```

IBrowse_UpdateIni

This updates the BROWSE.INI settings and can modify settings on units without having someone physically touch each unit to enable the new settings. This is also useful if there is a need to change settings such as password, battery status, and available menus on a regular basis.

Syntax

```
HTTP-Equiv="IBrowse_UpdateIni"
content= Section;Key;Value
```

Comments

The content section contains the section, key, and value to update in the INI file. A semicolon *must* separate these values. The section and key must be valid values for the INI file or an update does not occur. See "*INI File Explained*" in Chapter 1 for more information on the valid sections, keys, and values that you may specify.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=" IBrowse_UpdateIni"
content="Admin;DisableOptionsMenu;true">
   <META HTTP-Equiv=" IBrowse_UpdateIni"
content="Admin;Password;123456">
   <META HTTP-Equiv=" IBrowse_UpdateIni"
content="Display;UpdateInterval;60">
   <META HTTP-Equiv=" IBrowse_UpdateIni"
content="Display;DisplayBatteryStatus;true">
   <META HTTP-Equiv=" IBrowse_UpdateIni"
content="Display;DisplaySignalStrength;true">
<meta http-equiv="IBrowse_UpdateIni" content="Keys;AboutKey;0">
</HEAD>
<BODY>
   <H2>INI Update Test</H2>
   <P>The Options menu has been disabled</P>
   <P>The Password has been changed to 123456</P>
   <P>The icons will be updated every 60 seconds</P>
   <P>The Battery status will be displayed</P>
   <P>The Signal strength will be displayed</P>
</BODY>
</HTML>
```

IBrowse_Scanner

This tag is page-specific and only applies to the current page. When this tag is used alone *(not with the IBrowse_ScannerNavigate tag)*, the bar code data is sent to the keyboard buffer and any input field that has focus receives the data.

Syntax

```
HTTP-Equiv="IBrowse_Scanner"
content="Enabled | Disabled | AutoTab | AutoEnter"
```

Comments

The scanner is disabled on a page by default. This tag does not function if UseWedgeMode is enabled in the BROWSE.INI file.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_Scanner" Content="Enabled">
</HEAD>
<BODY>
<FORM NAME="FRM1">
<TABLE>
<TR>
   <TD>Barcode:</TD>
   <TD><INPUT TYPE="text" NAME="FLD1" SIZE="12"></TD>
</TR>
</TABLE>
</FORM>
</BODY>
</HTML>
```

IBrowse_ScannerNavigate

Note: On CK30 Handheld Computers and mobile computers with Windows Mobile 2003, using this tag to navigate to an URL only works if the URL is hosted on a web server. This tag does not work with file-based web pages.

This tag is page-specific and enables the scanner. When there is a successful scan, iBrowse either navigates to the given URL or executes the given Javascript function.

Syntax

```
HTTP-Equiv="IBrowse_ScannerNavigate"
content= URL | Javascript function
```

Comments

You can populate the data from the scan into the URL Querystring replacing "%s" with the following pieces of information: "barcode", "type", and "time" in this order. You can also pass this information to a Javascript function defined on the page. This tag does not function if UseWedgeMode is enabled in the BROWSE.INI file.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_ScannerNavigate"
Content="file://\windows\test.html?barcode=%s&type=%s&time=%s">
   <!-or ->
   <META HTTP-Equiv="IBrowse_ScannerNavigate"
Content="Javascript:OnScan('%s', '%s', '%s');">
</HEAD>
<BODY>
........
</BODY>
<SCRIPT>
function OnScan(data, type, time)
{
alert("Scanned barcode: " + data + " type: " + type + " time: " +
time);
}
</SCRIPT>
</HTML>
```

Enabling/Disabling Symbologies

This tag updates the scanner configuration either enabling or disabling the desired symbology.

Syntax

```
HTTP-Equiv= Symbology Type
content="Enabled | Disabled"
```

where *Symbology Type* is one of the following:

Symbology Name	Default
IBrowse_Code39	"Enabled"
IBrowse_Codabar	"Disabled"
IBrowse_Code93	"Disabled"
IBrowse_Code128	"Disabled"
IBrowse_I2of5	"Disabled"
IBrowse_PDF417	"Enabled"
IBrowse_Standard2of5	"Disabled"

Comments

These tags are application-specific, they are not limited to the scope of the current page. When a symbology is enabled or disabled, it remains in that state until changed by sending this tag.

UPC/EAN symbology is enabled by default. See "*Symbology Configuration*" on the next page for enabling or disabling the UPCA, UPCE, EAN8 and EAN13 symbologies.

Example

```
<HTML>
<HEAD>
  <META HTTP-Equiv="IBrowse_I2of5" Content="Enabled">
  <META HTTP-Equiv="IBrowse_Code39" Content="Disabled">
  <META HTTP-Equiv="IBrowse_Scanner" Content="Enabled">
</HEAD>
<BODY>
........
</BODY>
</HTML>
```

Symbology Configuration

These tags update the scanner symbology configuration.

Syntax

```
HTTP-Equiv= Parameter Name
content="{parameter value}"
```

Note: Applicable bar code symbology is listed within each parameter name.

Parameter Name	Parameter Value	Default
IBrowse_Code39_Format_FullAscii	"True" "False"	"False" (Standard43)
IBrowse_Code39_StartStop_Xmit	"True" "False"	"False"
IBrowse_Code39_StartStop_Chars	"DollarSign" "Asterisk" "Both"	"Asterisk"
IBrowse_Code39_CheckDigit	"Disabled" "MOD43" "MOD43_Xmit" "French_CIP" "French_CIP_Xmit" "Italian_CPI" "Italian_CPI_Xmit"	"Disabled"
IBrowse_Code39_Length	0, 3–50	0
IBrowse_Codabar_StartStop	"Disabled" "LowerABCD" "UpperABCD" "LowerABCDTN" "DC1toDC4"	"Disabled"
IBrowse_Codabar_CLSI	"True" "False"	"False"
IBrowse_Codabar_CheckDigit	"True" "False" "Disabled"	"Disabled"
IBrowse_Codabar_Length	0, 3–50	6
IBrowse_Code93_Length	0– 50	0
IBrowse_Code128_Include_EAN128_Identifier	"True" "False"	"True"
IBrowse_Code128_CIP128_Active	"True" "False"	"False"

Parameter Name (continued)	Parameter Value	Default
IBrowse_Code128_FNC1_Separator	ASCII value 1–127	29
IBrowse_Code128_Length	0–50	0
IBrowse_I2of5_CheckDigit	“Disabled” “MOD10” “MOD10_Xmit” “French_CIP” “French_CIP_Xmit”	“Disabled”
IBrowse_I2of5_Length	0, 2–50	6
IBrowse_PDF417_Buffer_Macro	“True” “False”	“True”
IBrowse_PDF417_Xmit_CtrlHeader	“True” “False”	“False”
IBrowse_PDF417_Xmit_FileName	“True” “False”	“False”
IBrowse_PDF417_Xmit_SegmentCount	“True” “False”	“False”
IBrowse_PDF417_Xmit_TimeStamp	“True” “False”	“False”
IBrowse_PDF417_Xmit_Sender	“True” “False”	“False”
IBrowse_PDF417_Xmit_Addressee	“True” “False”	“False”
IBrowse_PDF417_Xmit_FileSize	“True” “False”	“False”
IBrowse_PDF417_Xmit_Checksum	“True” “False”	“False”
IBrowse_Standard2of5_Format	“Identicon” “Computer_Identics”	“Identicon”
IBrowse_Standard2of5_CheckDigit	“True” “False” “Disabled”	“Disabled”
IBrowse_Standard2of5_Length	0, 3– 50	6
IBrowse_UPCA	“Enabled” “Disabled”	“Enabled”
IBrowse_UPCE	“Enabled” “Disabled”	“Enabled”
IBrowse_EAN8	“Enabled” “Disabled”	“Enabled”

Parameter Name (continued)	Parameter Value	Default
IBrowse_EAN13	"Enabled" "Disabled"	"Enabled"
IBrowse_UpcEan_Addon_Digits	"True" "False"	"False"
IBrowse_UpcEan_Addon_Two	"True" "False"	"False"
IBrowse_UpcEan_Addon_Five	"True" "False"	"False"
IBrowse_UPCA_CheckDigit	"True" "False"	"True"
IBrowse_UPCE_CheckDigit	"True" "False"	"True"
IBrowse_EAN8_CheckDigit	"True" "False"	"True"
IBrowse_EAN13_CheckDigit	"True" "False"	"True"
IBrowse_UPCA_NumberSystem	"True" "False"	"True"
IBrowse_UPCE_NumberSystem	"True" "False"	"True"
IBrowse_UPCA_Reencode_As_EAN13	"True" "False"	"True"
IBrowse_UPCE_Reencode_As_UPCA	"True" "False"	"False"
IBrowse_EAN8_Reencode_As_EAN13	"True" "False"	"False"

Comments

These tags are application-specific, they are not limited to the scope of the current page. When a configuration setting is updated, it remains in that state until changed by sending this tag again.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=”IBrowse_UPCE” Content=”False”>
   <META HTTP-Equiv=”IBrowse_EAN8” Content=”False”>
   <META HTTP-Equiv=”IBrowse_UpcEan_Addon_Digits” Content=”True”>
   <META HTTP-Equiv=”IBrowse_UpcEan_Addon_Five” Content=”True”>
   <META HTTP-Equiv=”IBrowse_UPCA_Reencode_As_EAN13” Content=”False”>
   <META HTTP-Equiv=”IBrowse_Scanner” Content=”Enabled”>
</HEAD>
<BODY>
   ........
</BODY>
</HTML>
```

IBrowse_ScannerAutoTrigger

This tag is page-specific and only applies to the current page. When used on a page, the scanner trigger is enabled automatically and allows for continuous and repeated scans.

Syntax

```
HTTP-Equiv="IBrowse_ScannerAutoTrigger"
content="Enabled | Disabled | AutoTab | AutoEnter"
```

Comments

This tag is currently only supported for the laser scanner. Be careful with its use, as powering the scanner continuously does drain the battery very quickly. This tag does not function if UseWedgeMode is enabled in the BROWSE.INI file.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_Scanner" Content="Enabled">
   <META HTTP-Equiv="IBrowse_ScannerAutoTrigger" Content="Enabled">
   <META HTTP-Equiv="IBrowse_ScannerNavigate"
Content="Javascript:OnScan('%s', '%s', '%s');">
</HEAD>
<BODY>
   ........
</BODY>
<SCRIPT>
function OnScan(data, type, time)
{
alert("Scanned barcode: " + data + " type: " + type + " time: " +
time);
}
</SCRIPT>
</HTML>
```

IBrowse_PLSeriesLabel_Print

This tag is page-specific and provides the contents of label to send to an Intermec® PL4 Portable Printer.

Syntax

```
HTTP-Equiv="IBrowse_PLSeriesLabel_Print"
content= Label contents
```

Comments

The value cannot be longer than 1024 characters. Use this tag with the IBrowse_PLSeriesLabel_Complete tag described on the next page. To use the PL4 Printer, configure applicable settings in the INI configuration file.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv="IBrowse_PLSeriesLabel_Print" Content=" ! 0 200
200 581 1\r\nLABEL\r\nCONTRAST 0\r\nTONE 0\r\nSPEED 3\r\nPAGE-WIDTH
240\r\nBAR-SENSE\r\nTEXT90 4 3 36 288 $22.88\r\nTEXT90 5 2 163 273
SWEATSHIRT\r\nVBARCODE UPCA 2 1 45 139 576 04364503284\r\nTEXT90 7 0
191 511 043645032841\r\nTEXT90 5 0 4 524 COMPARE AT\r\nTEXT90 4 0 30
508 $ 30.00\r\nTEXT90 5 0 115 575 ZD-180-KL\r\nTEXT90 5 2 119 269 ALL
COTTON\r\nTEXT90 7 0 114 389 01/17/98\r\nTEXT90 0 0 208 173
EA00-732-00560\r\nTEXT90 5 0 82 519 ELSEWHERE\r\nBOX 189 358 217 527
1\r\nFORM\r\nPRINT\r\n">
   <META HTTP-Equiv="IBrowse_PLSeriesLabel_Complete"
Content="Javascript:PrintingComplete('%ld');">
</HEAD>
<BODY>

</BODY>
</HTML>
```

IBrowse_PLSeriesLabel_Complete

This tag is page-specific and specifies the action to perform when printing of the label is complete. You can either redirect your application to another page or execute a Javascript function to define on the same page as this tag. A status code, where 0 represents success is sent from the browser. You must handle this by setting up the Querystring or function parameter accordingly, depending upon the method you choose.

Syntax

```
HTTP-Equiv="IBrowse_PLSeriesLabel_Complete"
content= URL | Javascript function
```

Comments

Use this tag with the IBrowse_PLSeriesLabel_Print tag described on the previous page. To use the PL4 Printer, configure applicable settings in the INI configuration file.

Error/Status Codes

Code	Meaning
0	Label printed successfully.
1	Error occurred printing label.
2	Printer is busy.
4	Printer is out of paper or labels.
8	Head\Latch is open.
16	Low battery. Replace or recharge battery before proceeding.
32	Error communicating with the COM Port. Ensure the printer is powered on and within range. Also, verify whether the [PLSeriesPrinter] COMPort and BaudRate settings exist and contain correct values in the INI configuration file.
64	Could not create instance of PL4 Printer control. Ensure the control is installed and registered.

Example

```
<HTML>
<HEAD>
   <META HTTP-Equiv=”IBrowse_PLSeriesLabel_Print” Content=” ! 0 200
200 581 1\r\nLABEL\r\..... FORM\r\nPRINT\r\n”>
   <META HTTP-Equiv=”IBrowse_PLSeriesLabel_Complete”
   Content=”Javascript:PrintingComplete(’%ld’);”>
   <1-or→
   <META HTTP-Equiv=”IBrowse_PLSeriesLabel_Complete”
   Content=” file://\windows\test.html?status=%ld”>

</HEAD>
<BODY>

</BODY>
<SCRIPT>
function PrintingComplete(status)
{
var str;
str = ”Label print completed with a status code of ” + status;
alert(str);
}
</SCRIPT>
</HTML>
```

B iBrowse Custom Edit Control

The iBrowse custom edit control (ITCAXEdit.DLL) is automatically installed with the iBrowse application. Although ITCAXEdit is not required, it provides additional functionality beyond what the standard edit box provides.

Note: The custom edit control is not available for CK30 Hand-held Computers.

Using the ITCAXEdit Control on a Web Page

Instantiate the control once for each edit box that needs to go on a page. Thus, a page with five edit boxes needs to instantiate ITCAXEdit five times. Do instantiation in the HTML source where the control is needed.

Example

This source creates a simple page with two edit boxes. The first one is named IBEAX1 and the second is named IBEAX2.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
<br>
EditBox2 <OBJECT ID="IBEAX2"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
<br>

</BODY>
</HTML>
```

ITCAXEdit Parameters and Functions

You can call all functions using the <PARAM> tag when instantiating the control or from JavaScript code in the HTML.

ALIGNMENT

ALIGNMENT controls the justification of the text in the Edit Box. JavaScript code can get and set this value. When password is set to true, the left alignment is used.

Syntax

```
/*[out, retval]*/ BSTR *pVal
/*[in]*/ BSTR newVal);
```

Values	Action
LEFT	Forces the text to left justified — This is the Default
RIGHT	Forces the text to right justified
CENTER	Centers the text in the edit box

Example

Creates a single edit box with right justification.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="ALIGNMENT" VALUE="RIGHT"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.ALIGNMENT='RIGHT';
</SCRIPT>

</HTML>
```

BORDER

BORDER controls whether a border is displayed around the edit box. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Displays a border around the edit box — This is the Default
FALSE	Does not display a border around the edit box

Example

Creates a single edit box and disables the border.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="BORDER" VALUE="FALSE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.BORDER = false;
</SCRIPT>

</HTML>
```

ENABLESCANNER

ENABLESCANNER controls whether the scanner is enabled when the edit box gets focus. When the edit box loses focus, the scanner is disabled. Do not use this if using the META tags to control scanning. JavaScript code can get and set this value. If UseWedgeMode is enabled in the INI file, this setting has no effect on scanning. *Note: if JavaScript sets ENABLESCANNER to TRUE, the scanner is not enabled until the next time the Edit Box gets focus.*

Syntax

```
/*[out, retval]*/ BSTR *pVal
/*[in]*/ BSTR newVal);
```

Values	Action
ENABLED	Enables the scanner when the edit box gets focus and disables the scanner when focus is lost.
DISABLED	Does not attempt to enable or disable the scanner — This is the Default
AUTOTAB	Enables the scanner when the edit box gets focus and disables the scanner when focus is lost. When a valid scan is received, the scanner appends a tab to the bar code value.
AUTOENTER	Enables the scanner when the edit box gets focus and disables the scanner when focus is lost. When a valid scan is received, the scanner appends an enter to the bar code value.

Example

Creates a single edit box and enables the scanner when the edit box gets focus.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="ENABLESCANNER" VALUE="ENABLED"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.ENABLESCANNER = ENABLED;
</SCRIPT>

</HTML>
```

ENABLESIP

Note: This is not available on the CK30 Handheld Computer.

ENABLESIP controls whether the onscreen keyboard (Soft Input Panel) is displayed when the edit box gets focus. If enabled, the onscreen keyboard is disabled when the edit box loses focus. The user can still put the onscreen keyboard down by tapping the keyboard icon *(shown left)* in the command bar at the bottom of the screen. JavaScript code can get and set this value. *Note: if JavaScript sets ENABLESIP to TRUE, the onscreen keyboard is not enabled until the next time the Edit Box gets focus.*

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Shows the onscreen keyboard when the edit box gets focus and closes the onscreen keyboard when focus is lost.
FALSE	Does not attempt to show or hid the onscreen keyboard — This is the Default.

Example

Creates a single edit box and shows the onscreen keyboard when the edit box gets focus.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="ENABLESIP" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.ENABLESIP = true;
</SCRIPT>

</HTML>
```

FONTBOLD

FONTBOLD controls whether the text in the edit box is bold. If enabled, the text is bold, otherwise the text is normal. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Make the text in the edit box bold
FALSE	Do not make the text in the edit box bold - This is the Default

Example

Creates a single edit box with bold text.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTBOLD" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTBOLD = true;
</SCRIPT>

</HTML>
```

FONTFIXEDPITCH

FONTFIXEDPITCH controls whether the text in the edit box is a fixed-pitch font. If enabled, the text is fixed-pitch, otherwise the text uses the default pitch. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Make the text in the edit box a fixed-pitch
FALSE	Do not make the text in the edit box fixed-pitch This is the Default

Example

Creates a single edit box with fixed pitch text.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTFIXEDPITCH" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTFIXEDPITCH = true;
</SCRIPT>

</HTML>
```

FONTITALIC

FONTITALIC controls whether the text in the edit box is italicized. If enabled, the text is displayed in italic, otherwise, the text is displayed normally. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Make the text in the edit box italicized.
FALSE	Do not make the text in the edit box italicized. This is the Default

Example

Creates a single edit box with italics text.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTITALIC" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTITALIC = true;
</SCRIPT>

</HTML>
```

FONTNAME

FONTNAME controls which font is used when text is displayed in the edit box. Any font loaded on the system is a valid parameter. Available fonts are dependant on the hardware used. JavaScript code can get and set the FONTNAME value. If the font name is not found in the system a system selected font is used.

Syntax

```
/*[out, retval]*/ BSTR *pVal
/*[in]*/ BSTR newVal);
```

Values	Action
Any font loaded on the mobile device. For example Tahoma, Courier New, Arial, Lucinda Console, MS Sans Serif.	Set the text in the edit box to the desired font. The default is Tahoma.

Example

Creates a single edit box using the Courier New font.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTNAME" VALUE=" Courier New"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTNAME = 'Courier New';
</SCRIPT>

</HTML>
```

FONTSIZE

FONTSIZE controls the size of the text displayed in the edit box. JavaScript code can get and set the FONTNAME value.

Syntax

```
/*[out, retval]*/ short *pVal
/*[in]*/ short newVal);
```

Values	Action
Any positive whole numeric value is valid. Values in the range of 8 to 16 are recommended.	The current font size of the text in the edit box gets set to the value passed in the default is 10.

Example

Creates a single edit box using a font size of 12.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTSIZE" VALUE="12"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTSIZE = 12;
</SCRIPT>

</HTML>
```

FONTUNDERLINE

FONTUNDERLINE controls whether the text in the edit box is underlined. If enabled, the text is displayed underlined, otherwise the text is displayed normally. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Make the text in the edit box underlined
FALSE	Do not make the text in the edit box underlined. This is the Default

Example

Creates a single edit box with underlined text.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="FONTUNDERLINE" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.FONTUNDERLINE = true;
</SCRIPT>

</HTML>
```

MAXLENGTH

MAXLENGTH controls the maximum number of characters the user can enter into the edit box. Any text already in the edit box beyond the MAXLENGTH is left as-is. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ short *pVal
/*[in]*/ short newVal);
```

Values	Action
0	No limit on the number of characters that can be entered - This is the Default
Any positive, whole, numeric value	The maximum number of characters allowed is set to the numeric value.

Example

Creates a single edit box that allows an entry with a maximum of six characters.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="MAXLENGTH" VALUE="6"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.MAXLENGTH = 6;
</SCRIPT>

</HTML>
```

PASSWORD

PASSWORD indicates that the entered text is sensitive information, such as a password. If enabled, instead of showing the text entered, an asterisk (*) is put in place of each character entered. JavaScript code can get and set this value. When password mode is enabled, the alignment is always left-aligned.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Replace each character entered with an asterisk (*)
FALSE	Display the text as it is entered - This is the Default

Example

Creates a single edit box to accept a password.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="PASSWORD" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.PASSWORD = true;
</SCRIPT>

</HTML>
```

SetFocus

SetFocus sets the focus to a specific edit box. This function cannot pass as a parameter; you must call it from JavaScript.

Syntax

```
/*[in]*/ VARIANT_BOOL bSelect);
```

Values	Action
TRUE	Focus is set to the desired edit box and the text is highlighted so it is overwritten by the first key press
FALSE	Focus is set to the desired edit box at the end of any existing text

Example

Creates a single edit box and set focus to it.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.SetFocus(1);
</SCRIPT>

</HTML>
```

VALUE

VALUE gets or sets the text that is displayed in the edit box. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ BSTR *pVal
/*[in]*/ BSTR newVal);
```

Values	Action
“”	No text - This is the Default
Any text string	Display the text as it is entered - This is the Default

Example

Creates a single edit box with the text “hello.”

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID=”IBEAX1”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
   <PARAM NAME=”VALUE” VALUE=”hello”
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE=”JSCRIPT”>
   IBEAX1.VALUE = ’hello’;
</SCRIPT>

</HTML>
```

WANTRETURN

WANTRETURN allows the edit control to hold multiple lines. If enabled, instead of performing the default enter key functionality, the enter key adds a newline to the edit box so further text is added to the next line. JavaScript code can get and set this value.

Syntax

```
/*[out, retval]*/ VARIANT_BOOL *pVal
/*[in]*/ VARIANT_BOOL newVal);
```

Values	Action
TRUE	Pressing the enter key creates a new line in the current edit box
FALSE	Display the text as it is entered - This is the Default

Example

Creates a single edit box to accept a password.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
   <PARAM NAME="PASSWORD" VALUE="TRUE"
</BODY>

<!- - OR - - >
<SCRIPT LANGUAGE="JSCRIPT">
   IBEAX1.PASSWORD = true;
</SCRIPT>

</HTML>
```

ITCAXEdit Events

All events are trapped using JavaScript code in the HTML. This allows for the web page to react to certain user input in a way that is not possible with the standard <input type="text"> tag. All of these events are optional. You do not need to implement these on every web page but instead you should implement these on an as-needed basis.

OnChange

The OnChange event is fired when the value of the ITCAXEdit control has changed. No return value is required.

Syntax

```
Void OnChange( void )
```

Parameter	Description
void	No parameters

Example

Displays and alert every time the value in the control is changed.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
</BODY>

<SCRIPT LANGUAGE="JSCRIPT" FOR="IBEAX1" EVENT="OnChange( )">
alert('The edit box value has been changed');
   return 0;
</SCRIPT>

</HTML>
```

OnClick

The OnClick event is fired when the user clicks on the ITCAXEdit control. No return value is required.

Syntax

```
Void OnClick(int x int y)
```

Parameter	Description
x	An integer that represents the x coordinate of the tap relative to the upper-left corner of the edit box in pixels.
y	An integer that represents the y coordinate of the tap relative to the upper-left corner of the edit box in pixels

Example

Changes the value of the edit box based on where the tap occurred in the edit box.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID=”IBEAX1”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
</BODY>

<SCRIPT LANGUAGE=”JSCRIPT” FOR=”IBEAX1” EVENT=”OnClick(x, y)”>
   if (x < (IBEAX1.Width / 2))
      IBEAX1.Value = ’LEFT’;
   else
      IBEAX1.Value = ’RIGHT’;
   return 0;
</SCRIPT>

</HTML>
```

OnFocus

The OnFocus event is fired when ITCAXEdit control receives focus. No return value is required.

Syntax

```
Void OnFocus(void)
```

Parameter	Description
void	No parameters

Example

When the edit control gets focus, set the value to the default.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID=”IBEAX1”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
</BODY>

<SCRIPT LANGUAGE=”JSCRIPT” FOR=”IBEAX1” EVENT=”OnFocus()”>
   IBEAX1.Value = ’Default’;
</SCRIPT>

</HTML>
```

LostFocus

The LostFocus event is fired when ITCAXEdit control loses focus. No return value is required.

Syntax

```
Void LostFocus(void)
```

Parameter	Description
void	No parameters

Example

When the edit control loses focus, display an alert.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
</BODY>

<SCRIPT LANGUAGE="JSCRIPT" FOR="IBEAX1" EVENT="OnLostFocus()">
   alert('The control just lost focus');
</SCRIPT>

</HTML>
```

OnKeyDown

The OnKeyDown event is fired when a key on the physical or onscreen keyboard is pushed and the ITCAXEdit control has focus. No return value is required.

Syntax

```
Void OnKeyDown(int key)
```

Parameter	Description
key	An Integer value that holds the ASCII code of the key pressed.

Example

When a key is pressed display an alert.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID=”IBEAX1”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
</BODY>

<SCRIPT LANGUAGE=”JSCRIPT” FOR=”IBEAX1” EVENT=”OnKeyDown()”>
   alert(’A key down was received’);
</SCRIPT>

</HTML>
```

OnKeyUp

The OnKeyUp event is fired when a key on the physical or onscreen keyboard is released and the ITCAXEdit control has focus. No return value is required.

Syntax

```
Void OnKeyUp((int key)
```

Parameter	Description
key	An Integer value that holds the ASCII code of the key pressed.

Example

When a key is released, display an alert.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID="IBEAX1"
CLASSID="CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9" WIDTH="50"
HEIGHT="25">
</BODY>

<SCRIPT LANGUAGE="JSCRIPT" FOR="IBEAX1" EVENT="OnKeyUp()">
   alert('A key up was received');
</SCRIPT>

</HTML>
```

KeyPress

The OnKeyPress event is fired when a key on the physical or onscreen keyboard is pressed and the ITCAXEdit control has focus. To leave the key value as-is, set the return value to 0, .To cancel the key press or have another key value to replace the value passed, set the value to –1.

Syntax

```
int OnKeyPress(int key)
```

Parameter	Description
key	An Integer value that holds the ASCII code of the key pressed.

Example

Create two edit controls and trap the tab key so it sets focus to the next edit control.

```
<HTML>
<HEAD></HEAD>
<BODY>
EditBox1 <OBJECT ID=”IBEAX1”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
EditBox2 <OBJECT ID=”IBEAX2”
CLASSID=”CLSID:D8A6AACE-0F02-4440-8F07-64CF68F33DE9” WIDTH=”50”
HEIGHT=”25”>
</BODY>

<SCRIPT LANGUAGE=”JSCRIPT” FOR=”IBEAX1” EVENT=”OnKeyPress()”>
   if (key == 9)
   {
      IBEAX2.SetFocus(1);   // set focus to the second control
      Return -1;                    // no need to pass the key back to
the control
   }
   return 0;    // pass the key value along a
</SCRIPT>
<SCRIPT LANGUAGE=”JSCRIPT” FOR=”IBEAX2” EVENT=”OnKeyPress()”>
   if (key == 9)
   {
      IBEAX1.SetFocus(1);   // set focus to the first control
      Return -1;                    // no need to pass the key back to
the control
   }
   return 0;    // pass the key value along a
</SCRIPT>

</HTML>
```

C iBrowse Navigation

The following information pertains to the CK30 Handheld Computer but can apply to the 700 Series Computer, if desired.

Keyboard Navigation

To aid in navigation on devices with no touch screen iBrowse contains many specific features to allow navigation though the keyboard.

- The IBrowse_OnKey Meta tag maps key values on a page-by-page basis to navigate to a specific web page or run a Javascript function on the current page. With this, you can assign each link available on a page a navigation key, and can set up a key to navigate back to the previous page. See the sample web pages installed to the "\windows\ibrowse" directory for examples.
- [F1] Help option. Through the INI file, you can set iBrowse to set the [F1] key to bring up a custom help page. This page could contain generic instructions on how to use iBrowse or a list of links to help bring up other windows such as Options, About, or Exit. See "*Reserved HREF Values*" on the next page for more information on HREF values. A default help page, F1HELP.HTML, is installed to the "\windows\ibrowse" directory.
- Persistent key remapping through the [**Keys**] section of the INI file maps keys permanently to features such as Return to the Home Page, Options screen, About screen, and Exit screen.
- On CK30 and Windows Mobile 2003 devices, you can use arrow keys to scroll up and down, left and right when scroll bars are present. On a page with edit boxes, you can toggle between the arrows key scrolling in the edit box and scrolling the page by pressing the enter key. For example, when a page loads and if the Edit box has focus, pressing the arrow keys scroll the cursor in the edit box. If the Enter key is pressed, the cursor leaves the edit box and pressing the arrow keys scroll the entire web page. You can avoid this need to scroll the web page if all pages are designed to fit on one screen. When the Edit box has focus, press [Enter], then [Tab] to tab between multiple edit boxes.

Reserved HREF Values

To allow web pages to be more dynamic and affect some control over the application, certain HREF values are reserved for use in the iBrowse application.

The reserved values are:

- IBROWSE_ABOUT_SCREEN
  Brings up the iBrowse About screen.
- IBROWSE_OPTIONS_SCREEN
  Brings up the iBrowse Option Screen. The password screen appears and prompts for a valid password before accessing the screen.
- IBROWSE_HOME_SCREEN
  Navigates to the Home page specified in the INI file.
- IBROWSE_EXIT_SCREEN
  Brings up the iBrowse Exit Screen. The password screen prompts for a valid password before accessing the screen.
- IBROWSE_REFRESH_PREVIOUS_SCREEN
  Attempts to navigate to the last screen that was either successfully or unsuccessfully navigated.

Example:

```
<html>

<head>
<meta http-equiv="IBrowse_OnKey49" content="IBROWSE_HOME_SCREEN">
<meta http-equiv="IBrowse_OnKey50" content="IBROWSE_ABOUT_SCREEN">
<meta http-equiv="IBrowse_OnKey51" content="IBROWSE_OPTIONS_SCREEN">
<meta http-equiv="IBrowse_OnKey52" content="IBROWSE_EXIT_SCREEN">

</head>
<body>
<b><font size="5">IBrowse Help Page</font></b>

<a href="IBROWSE_HOME_SCREEN">1) Home Page</a><br>
<a href="IBROWSE_ABOUT_SCREEN">2) About Screen</a><br>
<a href="IBROWSE_OPTIONS_SCREEN">3) Options Screen</a><br>
<a href="IBROWSE_EXIT_SCREEN">4) Exit IBrowse</a><br>

</body>

</html>
```

D Application Version History

Version 1.20

- Added support for CK30 Handheld Computers with Standard OS and 700 Series devices with Windows Mobile 2003.
- Added checks to provide extended feedback to the user about network errors. [see *ibrowse Connectivity Messages* in Chapter 1, "*About iBrowse*"]
- Added INI based persistent Keymappings to provide hotkeys to various functionality in iBrowse (Exit, options, about, Home) [see *INI File Explained — Keys Section* in Chapter 1, "*About iBrowse*"]
- Added F1Helpkey abilities so that when the F1 key is pressed a web page will be displayed with help for the user. [see *INI File Explained — Admin Section* in Chapter 1, "*About iBrowse*"]
- Added a notfoundpage option that will display a predefined web page when the browser could not successfully navigate to the appropriate page. [see *INI File Explained — Admin Section* in Chapter 1, "*About iBrowse"*]
- Added Predefined links to provide hotkeys to various functionality in iBrowse (Exit, options, about, Home) [see *Reserved HREF Values* in Appendix C, "*iBrowse Navigation*"]
- IBrowse_OnKey key remapping is only limited by memory and the number of keys available.
- iBrowse no longer requires a data storage card for devices that contain a Flash File Store.

Version 1.10

- Added support for custom META tags. See "*Custom META Tags for iBrowse*" in Appendix A for more information.
- Changed the way the onscree keyboard works so that it does not "flash" up on the screen when an edit box was selected but the keyboard icon was not tapped.
- Temporary fix was added for a Bluetooth issue. After a suspend/resume, the Bluetooth stack is reloaded and it brings the command bar to the foreground. iBrowse now looks for a message that indicates the stack is reloaded and then disables the command bar again, but this leaves a short amount of time where a user could get into the system.
- Added built-in support for scanning. See "*Custom META Tags for iBrowse*" in Appendix A for more information
- Added built-in support for the Intermec® PL4 Portable Printer. See "*Custom META Tags for I_Browse*" in Appendix A for more information.
- Added indicators for battery status and signal strength.
- Added ability to disable some of the icons and menu options.
- Added support for the ITCAXEdit ActiveX control.

Version 1.01

- Added support for the special TE Bundle.
- Added code to ensure that iBrowse was still full screen after applications opened on top of iBrowse are closed.

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